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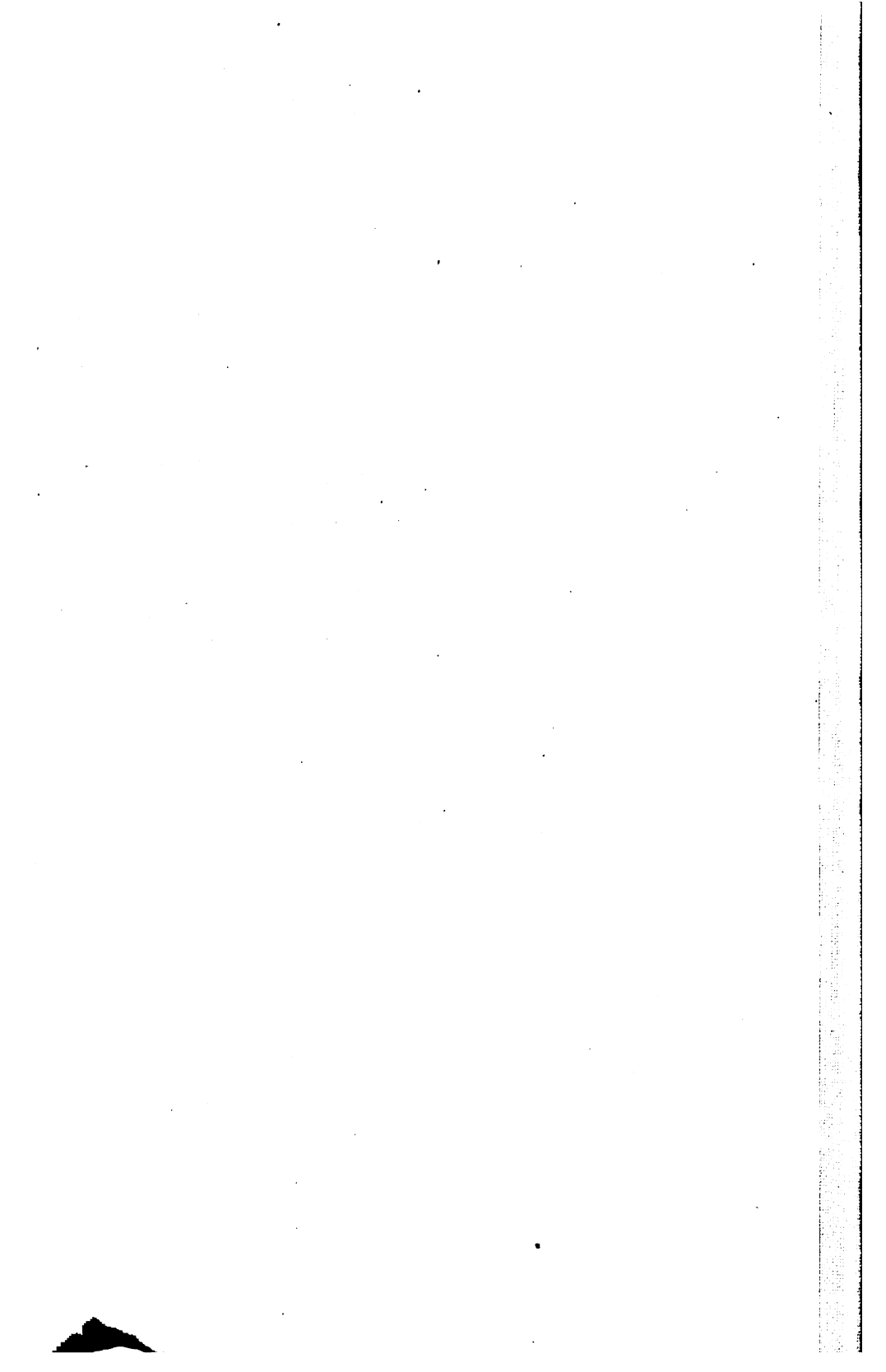
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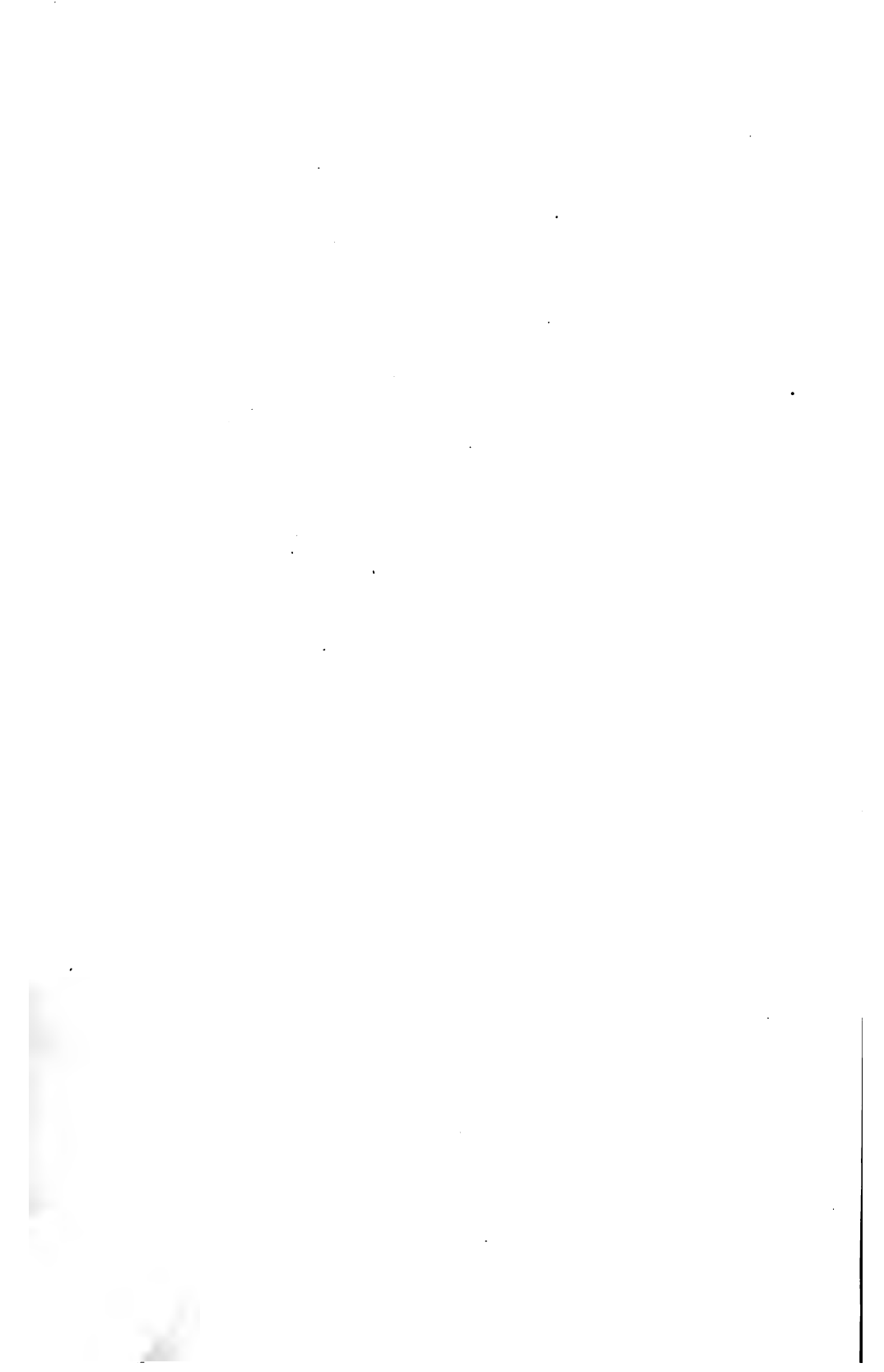
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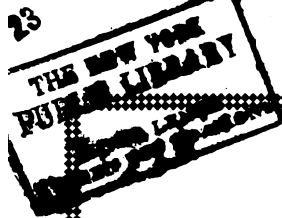


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Annual Report
Of the
State Department of Mines
Of
Kentucky

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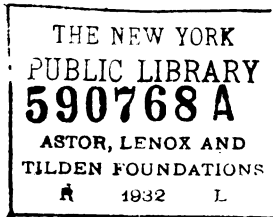
ANNUAL REPORT
OF THE
STATE DEPARTMENT OF MINES
OF
KENTUCKY

For the Year Ending December, 1920

NEW YORK
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L. BLENKINSOPP, Chief Inspector of Mines.

C. W.



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ROY W. B.
J. B. B.
Y. A. B.

STATE DEPARTMENT OF MINES

March 5, 1921.

To His Excellency,
Edwin P. Morrow,
Governor of Kentucky.

Sir:—

In compliance with the mining laws of the state of Kentucky, Act 1893, Sec. 3, I have the honor to submit herewith my first annual report for the department of mines for the year ending December 31, 1920. This being the 41st report of the coal mines within the state. The data we have at hand shows we have increased over last year 7,017,532.91 tons notwithstanding the fact of loss by car shortage and strikes. The tons lost by strikes in the Western Counties and Pike County, estimated 1,313,774.86. The days worked per mine for year was 187 out of a possible 312 for a full year run or 120.74 days equal 38% loss. The loss by strikes equal 4.26 days or .0136%. I have not mentioned coke produced as it is so small and insignificant.

Accidents.

The year 1919 recorded 114 fatal accidents. The number of accidents for 1920 was 127 for 266,825.87 tons produced per fatal accident, of these 4 were killed outside, 6 by mine fire at St. Bernard Mining Co. Arnold Mine, Earlington, Kentucky, 2 by gas explosion, 4 by powder explosion, and balance by mine cars, electrocution by wire contact, fall of roof and coal at face. In looking over the last of killed reported, it has found that many are due to carelessness of the party killed and, strange as it may seem, quite a number of those killed are old and experienced men. They seem to take greater risks and continue to do so, notwithstanding the object lessons that are given them when other men are injured or killed under similar conditions.

“Killed by falls of roof and coal” are generally caused by the miner not examining his roof or coal face or setting suffi-

cient timber to protect himself, lack of tools to properly set timber, lack of judgment, ignorance, lack of proper supervision and discipline of the mine officials.

"To reduce accidents" he should first comply with the mining laws of the state; he should be instructed in the manner of setting timber to protect himself; he should know how to sound roof. An inexperienced miner should never be permitted to work alone. Adequate supervision would greatly reduce accidents, and rigid discipline of the mining laws.

Inspections.

During the year the Inspectors have made an average of four inspections per week and for eight Inspectors, 1,536 inspections for the year or 1.84 inspections per mine. While Article 1, Section 2, Act 1914, page 8, Kentucky Mining Law says, he shall visit each mine in his district every four months and page 61, Act 1906, Section 4, provides for gaseous mines to be inspected every sixty days, but under the present force neither of the the above Acts can be complied with. I am of the opinion that quarries and fluorspar mines, zinc mines, iron ore mines, lead mines, etc., should come under the hearing of this department. There should be a bill passed prohibiting taking in a mine kegs of powder. The amount should be restricted to ten pounds per man and carried in wood fibre receptacles with a bottle neck and patent cork. Solid shooting should be prohibited in dusty and gaseous mines or be permitted only by the sanction of the Chief or District Inspector. From the inspections of mines herewith submitted, I would recommend one more Inspector be put on to cover the amount of inspections per mine each year as required by law.

I would also recommend an increase in salaries for Inspectors from \$1,800.00 to \$2,100.00 per year each or \$175.00 per month and the same proportion for Chief Inspector or \$3,300.00 per year or \$275.00 per month. This would place the District Inspectors on par with wages paid Mine Foremen and Chief on par with Superintendents of mines and \$1,200.00 per year for Clerk. Appropriation for traveling expenses should not be less than \$60.00 per month per Inspector. An emer-

gency fund of \$800.00 per year for Chief Inspector to take care of first aid equipment, charging and recharging oxygen and caustic soda, atmos and regenerators, repair to safety lamps, anemometers, water gauges, emergency calls to mine explosions, mine fires, visiting districts, to pay examiners representing operators and miners at mine foreman's examination. Four times per year that \$1,200.00 be allowed for office expenses for supplies, as printing, monthly reports for 834 mines, accident reports, annual reports, mining laws, mine foreman and fire boss daily record books (these cost \$2.00 cash), stationery as letter heads and envelopes, stamps, files, District Inspectors' reports of examinations to office and operators. Making an itemized appropriation recommended as follows:

Salaries

For nine Inspectors @ \$2,100.00 per year	\$18,900.00
Chief Inspector	3,300.00
Clerk and Stenographer	1,200.00
Traveling expenses for nine Inspectors @ \$60.00	6,480.00
Emergency fund	800.00
Office expenses	1,200.00

Total appropriation for Department of Mines \$31,880.00

The above appropriation is for nine Inspectors, as recommended. I may say the records here show that districts have been left vacant for six to eight months at a time and the records also show incomplete as no annual report was compiled since 1917, and this will explain how this office was run and could be run at less expense by Mr. C. J. Noorwood. It is very essential that the districts be kept filled so that mines may be examined for the benefit and safety of the miners and is an asset to the operator. The mines not co-operating have not been reached yet by our Inspectors, but will be during the year 1921, when I expect full co-operation of all operators; also an intelligent annual report from each. I may say during the six months of my office, I have had several letters from operators and miners complimenting the Inspectors for the fairness in their inspections. Great improvements have been made in all counties, and the requests to comply with the

recommendations given operators to comply with the mining law has been cheerfully complied with.

The state of Kentucky now stands fifth in rank in tonnage.

Personnel of Department of Mines.

L. Blenkinsopp, Chief Inspector of Mines.

Beatrice Langley, Clerk.

District Inspectors.

William Roberts, Madisonville, First District.

W. H. Hunt, Central City, Second District.

Joseph A. Lewis, Lexington, Third District.

R. D. Collett, Pineville, Fourth District.

Lacy Laxton, Harlan, Fifth District.

H. C. Faulkner, Hazard, Sixth District.

M. L. Wells, Paintsville, Seventh District.

Grant Phillips, Pikeville, Eighth District.

Board of Examiners.

L. Blenkinsopp, President, Lexington, Ky.

Charles Williams, Miner Representative, Arjay, Ky.

D. J. Ruckman, Operator Representative, Providence, Ky.

In conclusion the writer desires to express his high appreciation of the confidence reposed in him by your excellency and for the moral and material aid rendered him in the discharge of his duties pertaining to the work of this department.

Respectfully submitted,

L. BLENKINSOPP,
Chief Inspector of Mines.

LIST OF MINES THAT REPORTS HAVE COME IN SINCE ANNUAL REPORT WAS COMPILED.

Bunker Hill Coal Co.	Providence, Ky.
*W. T. Patrick Coal Co.	Owensboro, Ky.
*Island Coal Co.	Island, Ky.
*Fox Hollow Coal Co.	Island, Ky.
Lugaca Coal Co.	Island, Ky.
Gibraltar Coal Co.	Central City, Ky.
I. M. Madix Coal Co.	Greenville, Ky.

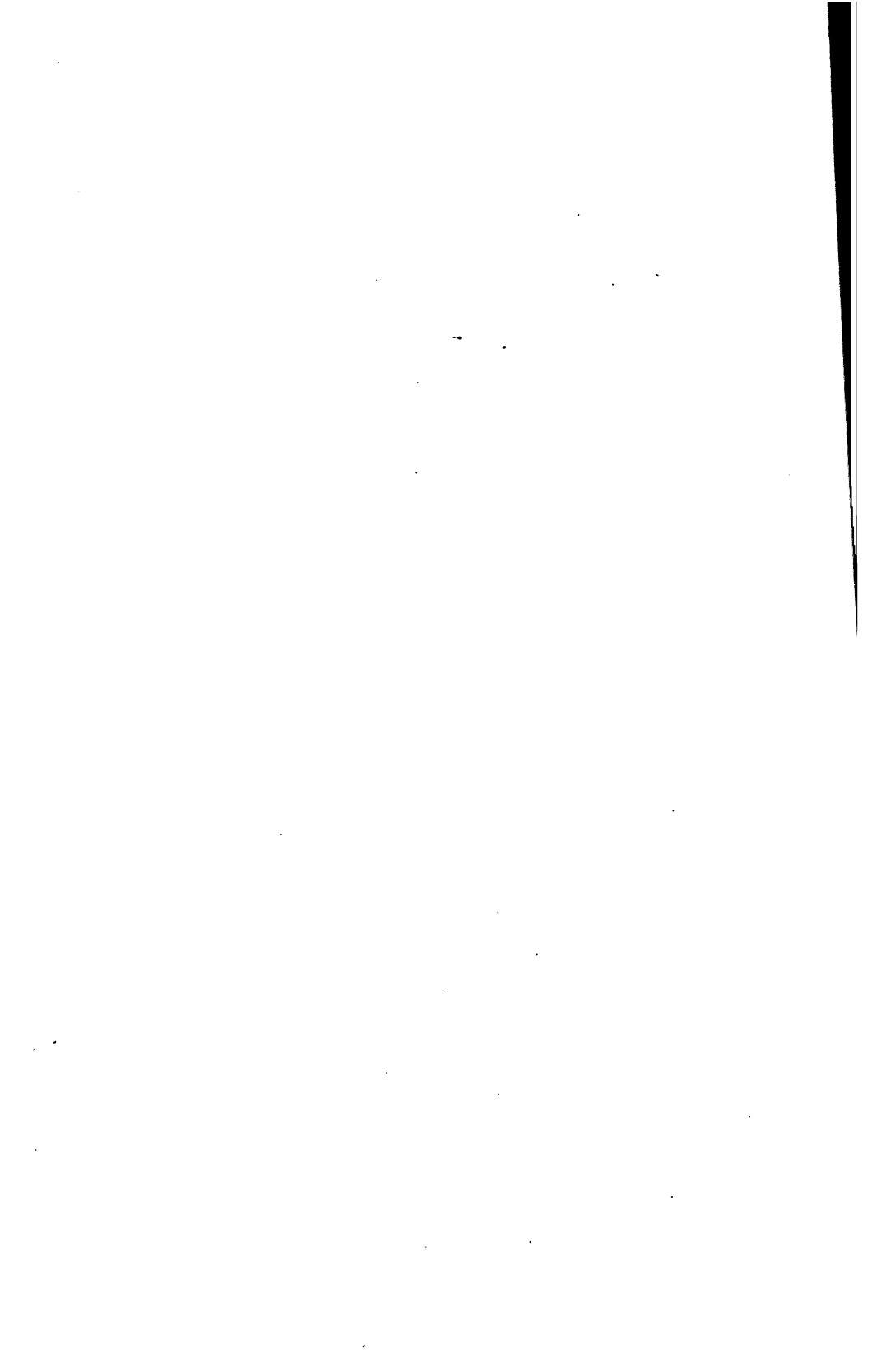
Lewis Benemitz Coal Co.	Greenville, Ky.
Dry Fork Coal Co.	Bells Trace, Ky.
Alpine Collieries Co.	Alpine, Ky.
Columbia Panama Coal Co.	Manchester, Ky.
Queen Blue Gem Coal Co.	Manchester, Ky.
Barwick Coal Co.	Barwick, Ky.
*Big Four Coal Co.	Williamsburg, Ky.
Evans Jellico Coal Co.	Jellico, Tenn.
Dry Branch Coal Co.	Gray, Ky.
Gateliff Coal Co. No. 4	Gateliff, Ky.
Gateliff Coal Co. No. 5	Gateliff, Ky.
New Watts Creek Jellico Coal Co.	Wafford, Ky.
Huron Coal Co.	Barboursville, Ky.
Laymond Callaway Coal Co.	Pineville, Ky.
Long Ridge Coal Co.	Hulen, Ky.
Yellow Hill Coal Mining Co.	Middlesboro, Ky.
Harlan Block Coal Co.	Molus, Ky.
*King Harlan Coal Co.	Kilday, Ky.
*T. C. Berger & Co.'s Mine	Le Junior, Ky.
Perkins Harlan Coal Co.	Harlan, Ky.
Darbs Fork Coal Co.	Hazard, Ky.
*Himyar Coal Corp.	Domino, Ky.
Muncy Coal & Mining Co.	Krypton, Ky.
Glogora Coal Co.	Wayland, Ky.
J. N. Meek Coal Co.	Drift, Ky.
Liberty Coal Corp.	McDowell, Ky.
McQuire Elkhorn Coal Co.	Smalley, Ky.
Miller Creek Kentucky Mining Co.	Auxier, Ky.
Regal Block Coal Co.	Ivel, Ky.
Pinson Elkhorn Collieries Co.	Millard, Ky.
Black Gem Coal Co.	Toler, Ky.
Jas. Hatcher Coal Co.	Big Shoal, Ky.
*Bennette-Johnson Blue Gem Coal Co.	Gateliff, Ky.
Carrs Fork Coal Co.	Allock, Ky.

* Mines that are co-operating, but have come in since annual report was compiled.

Between the time that this report was compiled, and the time that it was published, 4,000,000 tons of the assumed tonnage has been reported. The Inspectors' Reports show that the other mines that are listed as not co-operating worked during the year; which covers the assumed tonnage.

ANNUAL REPORT OF COAL MINES IN KENTUCKY 1920

	1919	Total 1920
Total tonnage	31,493,637.00	
Total tonnage for mines co-operating.....		33,678,720.57
Total tonnage for mines not co-operating ..		5,213,324.00
		<hr/>
Total tonnage for 1920.....		38,892,044.57
Number of Mines co-operating		599
Number of Mines not co-operating		235
		<hr/>
Total number of mines		834
Number of men employed outside		11,822
Assumed number of men employed outside of mines not co-operating		2,059
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Total number of men employed outside..		13,881
Number of men employed inside		38,119
Assumed number of men employed inside of mines not co-operating		6,347
		<hr/>
Total number of men employed inside..		44,466
Average number of days worked by each com- pany		187
Average number of days lost by strikes		4.26
Total tons lost by strikes		1,313,774.86
Fatal accidents in 1920		127
Tons per accident		266,825.87



ANNUAL REPORT OF COAL MINES IN KENTUCKY FOR YEAR 1920.

Name of County	Name of Mine	Post Office	County	District	Tonnage
Norton Coal & Mining Co.	No. 1	Nortonville, Ky.	Hopkins	1	175,757.20
Norton Coal & Mining Co.	No. 2	Nortonville, Ky.	Hopkins	1	43,848.54
Norton Coal & Mining Co.	St. Charles	Nortonville, Ky.	Hopkins	1	32,525.86
St. Bernard Mining Co.	No. 3	Earlington, Ky.	Hopkins	1	150,693.00
St. Bernard Mining Co.	No. 9	Earlington, Ky.	Hopkins	1	118,289.00
St. Bernard Mining Co.	Hecla	Earlington, Ky.	Hopkins	1	97,737.00
St. Bernard Mining Co.	Arnold	Earlington, Ky.	Hopkins	1	134,463.00
St. Bernard Mining Co.	No. 11	Earlington, Ky.	Hopkins	1	211,534.00
St. Bernard Mining Co.	Shamrock	Earlington, Ky.	Hopkins	1	235,284.00
St. Bernard Mining Co.	Diamond	Earlington, Ky.	Hopkins	1	148,151.00
Buck Run Coal Co.		St. Charles, Ky.	Hopkins	1	2,201.25
Hart Coal Co.		Madisonville, Ky.	Hopkins	1	11,762.00
Grapevine Coal Co.		Madisonville, Ky.	Hopkins	1	162,848.02
Coil Coal Co.	Coil	Madisonville, Ky.	Hopkins	1	143,619.07
Sunset Coal Co.		Madisonville, Ky.	Hopkins	1	173,025.16
Renicke Coal & Mining Co.	Renicke	Madisonville, Ky.	Hopkins	1	172,962.68
Rose Creek Coal & Coke Co.	Rose Creek	Madisonville, Ky.	Hopkins	1	41,302.04
Sterling Coal Co.	Sterling	Madisonville, Ky.	Hopkins	1	782,806.69
Pontiac Coal Co.		Madisonville, Ky.	Hopkins	1	7,314.00
Caney Creek Coal Co.	Caney Creek	Madisonville, Ky.	Hopkins	1	6,935.00
Isley Mining Co.		Madisonville, Ky.	Hopkins	1	67,230.00
Mason Mining Co.		Madisonville, Ky.	Hopkins	1	35,490.03
Woodruff Coal Co.		St. Charles, Ky.	Hopkins	1	1,370.00
D. G. Furgeson		Nortonville, Ky.	Hopkins	1	2,639.00
Dunning-Gordon Mining Co.		St. Charles, Ky.	Hopkins	1	962.95
Hamblett Coal Co.		St. Charles, Ky.	Hopkins	1	14,076.48
Circle City Lead Co.		Madisonville, Ky.	Hopkins	1	51,367.00
Mortons Coal Co.	Luton	Nebo, Ky.	Hopkins	1	400.00
Victoria Coal Co.	Mortons	Madisonville, Ky.	Hopkins	1	175,667.00
Total tonnage					3,200,260.97

Mines Not Co-operating.

A. M. Alexander Coal Co.	Madisonville, Ky.	Hopkins	1	.....
Brent Hart Coal Co.	Mortons Gap, Ky.	Hopkins	1	.....
West Jellico Coal Co.	West Jellico	St. Charles, Ky.	Hopkins	1
Whippoorwill Mining Co.	St. Charles, Ky.	Hopkins	1	.....
Memphis Coal Mining Co.	Petersburg	Mannington, Ky.	Christian	1
Memphis Coal Mining Co.	Dixie Williams	Mannington, Ky.	Christian	1
Empire Coal Co.	Empire	Crofton, Ky.	Christian	1
Williams Coal Co. ....	.....	Mannington, Ky.	Christian	1
Total tonnage				67,137.09
Southland Coal Co.	No. 3	Henderson, Ky.	Henderson	1
Southland Coal Co.	No. 1	Henderson, Ky.	Henderson	1
Dixie Coal Co.	Flower Hill	Spottsville, Ky.	Henderson	1
Panama Coal Co.	Panama	Robards, Ky.	Henderson	1
Pittsburg Coal Co. ....	.....	Baskett, Ky.	Henderson	1
Nicholson Mining & Mfg. Co.	Hot Stuff	Henderson, Ky.	Henderson	1
John Archbold Co. ....	.....	Bluff City, Ky.	Henderson	1
Total tonnage				511,903.40
Knoe Creek Coal Co. ....	.....	Corydon, Ky.	Henderson	1
Corydon Coal Co. ....	.....	Henderson, Ky.	Henderson	1
West Kentucky Coal Co.	No. 3	Wheatcroft, Ky.	Webster	1
West Kentucky Coal Co.	No. 4	Wheatcroft, Ky.	Webster	1
West Kentucky Coal Co.	No. 5	Wheatcroft, Ky.	Webster	1
West Kentucky Coal Co.	No. 6	Wheatcroft, Ky.	Webster	1
West Kentucky Coal Co.	No. 7	Wheatcroft, Ky.	Webster	1
Victory Coal Co. ....	.....	Providence, Ky.	Webster	1
St. Bernard Mining Co.	Luton	Providence, Ky.	Webster	1
Providence Coal & Mining Co. ....	.....	Providence, Ky.	Webster	1
Luton Mining Co.	Luton No. 3	Providence, Ky.	Webster	1
Ruckman Coal Co.	Ruckman	Providence, Ky.	Webster	1
Young & Morgan Co. ....	.....	Providence, Ky.	Webster	1
Highland Mining Co.	Highland	Providence, Ky.	Webster	1
Hall Force Coal Co. ....	.....	Providence, Ky.	Webster	1
Clifty Consolidated Coal Co. ....	.....	Providence, Ky.	Webster	1
Diamond Coal Co.	Diamond	Providence, Ky.	Webster	1
Leeper Coal Co.	Leeper	Providence, Ky.	Webster	1
Total tonnage				1,288,519.79

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Tago Coal Mine	Tago	Providence, Ky.	Webster	1	.....
Sornberger Coal Co.	Harris	Providence, Ky.	Webster	1	.....
R. & A. Coal Co.		Providence, Ky.	Webster	1	.....
Oyana Coal Co.		Providence, Ky.	Webster	1	.....
New Sebree Mining Co.		Sebree, Ky.	Webster	1	.....
Monroe Coal Co.		Providence, Ky.	Webster	1	.....
Montgomery Mining Co.		Providence, Ky.	Webster	1	.....
Inter Change Coal Co.		Providence, Ky.	Webster	1	.....
Hunter Coal Co.	Hunter	Providence, Ky.	Webster	1	.....
Franklin Coal Co.		Sullivan, Ky.	Webster	1	.....
Cox & Powers		Providence, Ky.	Webster	1	.....
Cox & Barker		Providence, Ky.	Webster	1	.....
Clay Coal & Mining Co.		Clay, Ky.	Webster	1	.....
B. B. & F. Coal Co.		Providence, Ky.	Webster	1	.....
R. W. Hunter Coal Co.		Providence, Ky.	Webster	1	.....
Diverse Coal Co.		Providence, Ky.	Webster	1	.....
Economy Coal Co.		Providence, Ky.	Webster	1	.....
Bunker Hill Coal Co.		Providence, Ky.	Webster	1	.....
Wynn Coal Co.		Providence, Ky.	Webster	1	.....
West Kentucky Coal Co.	No. 1	Sturgis, Ky.	Union	1	90,718.31
West Kentucky Coal Co.	No. 2	Sturgis, Ky.	Union	1	146,942.27
West Kentucky Coal Co.	No. 8	Sturgis, Ky.	Union	1	123,785.05
West Kentucky Coal Co.	No. 9	Sturgis, Ky.	Union	1	76,816.71
Town Coal Co.	Town	Sturgis, Ky.	Union	1	25,645.00
Bell Union Coal & Mining Co.		Curlew, Ky.	Union	1	84,758.86
Hercules Coal Co.	Hercules	Curlew, Ky.	Union	1	34,302.30
Producers Coal Co.	Waverly	Morganfield, Ky.	Union	1	17,850.00
Madison Coal Corp.	No. 11	Waverly, Ky.	Union	1	442,609.00
Morganfield Coal & Mining Co.		Dekovan, Ky.	Union	1	38,659.05
Kington Coal Mining Co.		Morganfield, Ky.	Union	1	40,416.88
Hughlan Coal Co.		Morganfield, Ky.	Union	1	42,702.52
Total tonnage					1,165,205.95

Mines Not Co-operating.

Blue Bell Coal Co.	Curlew, Ky.	Union	1	5,708.00
M. F. Devine Coal Co.	Hawesville, Ky.	Handcock	2	640.00
L. S. Powers	Henretta	Handcock	2	4,240.00
G. W. Newman Co.	Newman	Handcock	2	
Total tonnage				10,588.00
Beaver Dam Coal Co.	Williams	McHenry, Ky.	Ohio	210,700.00
Beaver Dam Coal Co.	Taylor	Beaver Dam, Ky.	Ohio	156,847.00
C. W. Wells Coal Co.	Ellis	Deanfield, Ky.	Ohio	39,366.08
West Hartford Coal Co.	Render	Hartford, Ky.	Ohio	3,754.56
Render Coal Co. ....	.....	McHenry, Ky.	Ohio	54,604.00
Martin & Polock Coal Co. ....	.....	Cromwell, Ky.	Ohio	7,127.00
Bishop Coal Co. ....	.....	Centertown, Ky.	Ohio	28,181.41
Broadway Coal Mining Co. ....	.....	Simmons, Ky.	Ohio	123,942.00
Kentucky Coal Co.	Echols	Echols, Ky.	Ohio	113,495.63
Kimbley Coal Co.	Kimbley	Centertown, Ky.	Ohio	44,902.40
Rockport Coal Co., Inc.	Crown	Rockport, Ky.	Ohio	112,678.37
Rockport Coal Co.	No. 2	Centertown, Ky.	Ohio	33,901.64
Holt Bros. Mining Co. ....	.....	McHenry, Ky.	Ohio	106,027.60
Tichenor Coal Co. ....	.....	McHenry, Ky.	Ohio	68,013.00
Total tonnage				1,003,541.32
Geo. H. Rudy Co. ....	.....	Owensboro, Ky.	Davies	26,421.00
Clark Mfg. Cool Co. ....	.....	Owensboro, Ky.	Davies	1,195.00
Total tonnage				27,616.00
Maglinger Coal Mining Co. ....	.....	Owensboro, Ky.	Davies .....	.....
Miller & Overstreet Co. ....	.....	Owensboro, Ky.	Davies .....	.....
Lilly Mead Coal Co. ....	.....	Owensboro, Ky.	Davies .....	.....
Superior Coal Co. ....	.....	Owensboro, Ky.	Davies .....	.....
J. Lee Rudy Coal Co. ....	.....	Owensboro, Ky.	Davies .....	.....
Turner Coal Co. ....	.....	Island, Ky.	McLean	18,198.00
White Coal Mining Co. ....	.....	Island, Ky.	McLean	56,198.89
E. M. F. Coal Co. ....	.....	Island, Ky.	McLean	55,225.29
E. S. Randall Coal Co. ....	.....	Island, Ky.	McLean	18,148.75
G. W. Davis Coal Co. ....	.....	Island, Ky.	McLean	1,100.00
Jarvis & Henry Co. ....	.....	Island, Ky.	McLean	1,045.00

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Elbert Bowman Coal Co.	.....	Island, Ky.	McLean	2	1,030.00
John Penrod Coal Co.	.....	Island, Ky.	McLean	2	2,346.00
J. D. Hall Coal Co.	.....	Island, Ky.	McLean	2	980.00
J. W. Wood Coal Co.	.....	Island, Ky.	McLean	2	2,500.00
Total tonnage					156,763.93
Lugero Coal Co.	.....	Island, Ky.	McLean	2	.....
Bob Davis Coal Co.	.....	Island, Ky.	McLean	2	.....
W. G. Duncan Coal Co.	Graham	Greenville, Ky.	Muhlenberg	2	374,925.85
W. G. Duncan Coal Co.	Luzerne	Greenville, Ky.	Muhlenberg	2	211,218.00
Phoenix Coal Co.	No. 1	Greenville, Ky.	Muhlenberg	2	90,853.81
Phoenix Coal Co.	No. 2	Tarna, Ky.	Muhlenberg	2	64,795.45
Pacific Coal Mining Co.	Gish	Mercer, Ky.	Muhlenberg	2	113,868.12
Crescent Coal Co.	.....	Bevier, Ky.	Muhlenberg	2	181,048.00
Liberty Coal Mining Co.	.....	Hillside, Ky.	Muhlenberg	2	80,051.16
Hayden Coal Co.	.....	Mercer, Ky.	Muhlenberg	2	31,794.00
Beavert Coal Co., Inc.	.....	Cleaton, Ky.	Muhlenberg	2	178,731.53
Kirk Coal Co.	No. 1	Beech Creek, Ky.	Muhlenberg	2	108,079.00
Gibraltar C. & M. Co.	Gibraltar	Central City, Ky.	Muhlenberg	2	203,584.00
Gibraltar C. & M. Co.	Holt	Central City, Ky.	Muhlenberg	2	119,498.00
Green River Collieries	Green River	Mogg, Ky.	Muhlenberg	2	50,547.29
G. C. Nelson Coal Co.	.....	Greenville, Ky.	Muhlenberg	2	85.00
Greenville Fuel Co.	Pawderly	Pawderly, Ky.	Muhlenberg	2	186,865.00
Greenville Coal Co.	.....	Greenville, Ky.	Muhlenberg	2	2,058.00
Greenville Coal Co.	Martwick	Greenville, Ky.	Muhlenberg	2	164,125.00
Beech Creek Coal Co.	Beech Creek	Beech Creek, Ky.	Muhlenberg	2	201,238.10
Jourdain Coal Co.	.....	Central City, Ky.	Muhlenberg	2	400.00
Mercer Coal Co.	Mercer	Central City, Ky.	Muhlenberg	2	121,513.00
Madisonville Coal Corp.	No. 10	Central City, Ky.	Muhlenberg	2	273,895.00
Block Well Bros. Co.	.....	Midland, Ky.	Muhlenberg	2	878.00
Middle West Coal Co.	.....	Depoy, Ky.	Muhlenberg	2	48,857.00
V. Fortney Coal Co.	.....	Greenville, Ky.	Muhlenberg	2	1,427.00
W. A. Wickliff Coal Co.	.....	Browder, Ky.	Muhlenberg	2	206,057.00
Nelson Creek Coal Co.	.....	Nelson, Ky.	Muhlenberg	2	87,770.40
Wells & Lovell Co.	.....	Greenville, Ky.	Muhlenberg	2	1,769.00
Salsburg Coal Co.	Hillside	Hillside, Ky.	Muhlenberg	2	20,379.52
Kentucky Midland Coal Co.	Midland	Midland, Ky.	Muhlenberg	2	142,439.03
.....	.....	.....	Muhlenberg	2	16,622.57

Mines Not Co-operating.

Lewis Benetz Coal Co.	Greenville, Ky.	Muhlenberg	2.	.....	.....
Belton Coal Co.	Yost, Ky.	Muhlenberg	2.	.....	.....
Frankel Coal Co.	Hillside, Ky.	Muhlenberg	2.	.....	.....
Gibraltar Coal Co.	Central City, Ky.	Muhlenberg	2.	.....	.....
Holt Brothers Co.	Central City, Ky.	Muhlenberg	2.	.....	.....
H. M. Madix Coal Co.	Greenville, Ky.	Muhlenberg	2.	.....	.....
Oaklan Coal Co.	Greenville, Ky.	Muhlenberg	2.	.....	.....
Curr Coal Co.	Pawderly, Ky.	Muhlenberg	2.	.....	.....
Thompson Coal Co.	Drakesboro, Ky.	Muhlenberg	2.	.....	.....
Diamond Block Coal Corp.	Drakesboro, Ky.	Muhlenberg	2.	.....	.....
Black Diamond Coal & Mining Co.	Drakesboro, Ky.	Muhlenberg	2.	.....	.....
Victor Fuel Co.	Drakesboro, Ky.	Muhlenberg	2.	.....	.....
Carbon Mining Co.	Princess, Ky.	Boyd	3.	.....	9,589.00
Frank H. Celre Co.	Celre 2-3	Boyd	3.	.....	3,562.00
Thomas Coal Co.	Ashland, Ky.	Boyd	3.	.....	4,283.00
Princess Coal Co.	Princess, Ky.	Boyd	3.	.....	5,653.00
Big Run Coal Co.	Princess, Ky.	Boyd	3.	.....	43,319.01
Wm. Wurrst Co.	Ashland, Ky.	Boyd	3.	.....	19,300.00
Ashland Iron & Mining Co.	Rush, Ky.	Boyd	3.	.....	42,399.83
				Total tonnage	128,105.84
Kentucky Hicarbon Coal Co.	Hicarbon, Ky.	Boyd	3.	.....	.....
Lee Coal Co.	Clearfield, Ky.	Rowan	3.	.....	2,760.12
Furnace Gap Coal Co.	Crawfield, Ky.	Clay	3.	.....	10,521.11
Miser Coal Co.	Manchester, Ky.	Clay	3.	.....	906.00
Hensley Coal Co.	Manchester, Ky.	Clay	3.	.....	8,414.04
Sun Coal Co.	Sibert, Ky.	Clay	3.	.....	8,247.15
Gregory Coal Co.	Crawfield, Ky.	Clay	3.	.....	133.50
				Total tonnage	28,221.80

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Queen Blue Gem Coal Co.	Manchester, Ky.	Clay	3	.....
Columbia Panama Coal Co.	Manchester, Ky.	Clay	3	.....
Clay County Coal Co.	Himo, Ky.	Clay	3	.....
Mayer & Jarrard Coal Co.	Manchester, Ky.	Clay	3	.....
Horse Creek Coal Co.	Manchester, Ky.	Clay	3	.....
Manchester Coal & Mfg. Co.	Manchester, Ky.	Clay	3	.....
Little Coal Co.	Manchester, Ky.	Clay	3	.....
Jones Bros. Coal Co.	Jackson, Ky.	Breathitt	3	28,152.90
Elser Coal Co.	Saldee, Ky.	Breathitt	3	9,380.25
J. M. Gabbard Coal Co.	Elkatawa, Ky.	Breathitt	3	6,500.00
Riverside Coal Co.	Gunn, Ky.	Breathitt	3	28,953.00
Pan Handle Coal Co.	Jackson, Ky.	Breathitt	3	14,423.00
R. T. Davis Coal Co.	Jackson, Ky.	Breathitt	3	47,434.00
Kentucky River Mining Co.	Frozen Creek, Ky.	Breathitt	3	8,751.75
Jackson Block Coal Co.	Jackson, Ky.	Breathitt	3	22,054.00
Breathitt Coal Co.	Elkatawa, Ky.	Breathitt	3	1,600.00
Ruthanne Coal Co.	Wolf Coal, Ky.	Breathitt	3	12,281.70
Progressive Coal Co.	No. 1-2-3	Calla, Ky.	Breathitt	3	4,377.00
Spencer & Brophy Coal Co.	Progressive	Jackson, Ky.	Breathitt	3	1,185.50
Bear Branch Coal Co.	Simpson, Ky.	Breathitt	3	9,037.00
Emory Cain Coal Co.	Jackson, Ky.	Breathitt	3	22,326.54
Mowberry & Robinson Co.	Quick Sand, Ky.	Breathitt	3	26,332.00
Total tonnage					242,788.64
Barwick Coal Co.	Barwick, Ky.	Breathitt	3	.....
Lick Branch Coal Co.	Saldee, Ky.	Breathitt	3	.....
Anjean Coal Co.	Elkatawa, Ky.	Breathitt	3	.....
Kash Davis Coal Co.	Haddix	Breathitt	3	.....
Kentucky Coal Supply Co., (362 Georgetown St., Lexington, Ky.)	Lexington, Ky.	Breathitt	3	.....
J. B. Jewell Coal Co.	Lexington, Ky.	Breathitt	3	.....
(682 McClelland Bldg., Lexington, Ky.)	Lexington, Ky.	Breathitt	3	.....
Griffith & Tolent Co.	Elkatawa, Ky.	Breathitt	3	.....
Friend Kash Coal Co.	Irvin, Ky.	Breathitt	3	.....
Kentucky Block Co.	Elkatawa, Ky.	Breathitt	3	108,480.00

Mines Not Co-operating.

Lee Coal Co.	Lee	Clearfield, Ky.	3	11,943.74
Redwine Cannel Coal Co.	Redwine, Ky.	Morgan	3	4,715.63
J. B. Hickory Cannel Co.	Ruch Branch	Morgan	3	1,842.00
J. B. Hickory Cannel Co.	J. B.	Redwine, Ky.	3	9,666.17
Total tonnage				180,696.54
Pine Knott Coal Co.	Lenox, Ky.	Morgan	3	...
Morgan Elliott Coal Co.	Redwine, Ky.	Morgan	3	...
Lenox Bituminous Coal Co.	Lenox, Ky.	Morgan	3	...
Analine Coal Co.	Loveland, Ky.	Morgan	3	...
Rush Branch Cannel Coal Co.	Rush Branch, Ky.	Morgan	3	...
C. B. Martin Coal Co.	Redwine, Ky.	Morgan	3	...
Meadows Cannel Coal Co.	Loveland, Ky.	Morgan	3	...
Paint Cliff Mining Co.	Paint Cliff	McCreary	3	19,824.00
Camaigo Coal Co.	Camiago	McCreary	3	43,132.80
Fidelity Coal Mining Co.	West Jellico	McCreary	3	180,080.05
Bry-Mac Coal Co.	Erskin	McCreary	3	44,992.00
J. D. Erskin Coal Co.	St. Michael	McCreary	3	28,459.00
Premier Coal Co.	Oz, Ky.	McCreary	3	3,351.00
Eagle Coal Co.	Yamacraw, Ky.	McCreary	3	5,087.00
U. S. Coal & Mining Co.	Barren Fork	McCreary	3	47,632.00
Stearns Coal & Lumber Co.	Wiborg	McCreary	3	23,614.00
Fidelity	Stearns, Ky.	McCreary	3	384,223.00
Total tonnage				780,404.85
Tate & Souleyret Co.	Indian Head, Ky.	McCreary	3	...
Indian Creek Coal Co.	Indian Head, Ky.	McCreary	3	...
Taylor & Wilson Co.	Wiborg, Ky.	McCreary	3	...
Beattyville Coal Co.	No. 2	Lee	3	60,019.00
Ky-River Coal Co.	Harris	Lee	3	4,968.00
Thos. James & Co.	Beattyville, Ky.	Lee	3	1,731.00
Total tonnage				66,736.00

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Tago Coal Mine	Tago	Providence, Ky.	Webster	1	.....
Sornberger Coal Co.	Harris	Providence, Ky.	Webster	1	.....
R. & A. Coal Co.		Providence, Ky.	Webster	1	.....
Oyana Coal Co.		Providence, Ky.	Webster	1	.....
New Sebree Mining Co.		Sebree, Ky.	Webster	1	.....
Monroe Coal Co.		Providence, Ky.	Webster	1	.....
Montgomery Mining Co.		Providence, Ky.	Webster	1	.....
Inter Change Coal Co.		Providence, Ky.	Webster	1	.....
Hunter Coal Co.		Providence, Ky.	Webster	1	.....
Franklin Coal Co.	Hunter	Sullivan, Ky.	Webster	1	.....
Cox & Powers		Providence, Ky.	Webster	1	.....
Cox & Barker		Providence, Ky.	Webster	1	.....
Clay Coal & Mining Co.		Clay, Ky.	Webster	1	.....
B. B. & F. Coal Co.		Providence, Ky.	Webster	1	.....
R. W. Hunter Coal Co.		Providence, Ky.	Webster	1	.....
Diverse Coal Co.		Providence, Ky.	Webster	1	.....
Economy Coal Co.		Providence, Ky.	Webster	1	.....
Bunker Hill Coal Co.		Providence, Ky.	Webster	1	.....
Wynn Coal Co.		Providence, Ky.	Webster	1	.....
West Kentucky Coal Co.	No. 1	Sturgis, Ky.	Union	1	90,718.31
West Kentucky Coal Co.	No. 2	Sturgis, Ky.	Union	1	146,942.27
West Kentucky Coal Co.	No. 8	Sturgis, Ky.	Union	1	123,785.05
West Kentucky Coal Co.	No. 9	Sturgis, Ky.	Union	1	76,816.71
Town Coal Co.	Town	Sturgis, Ky.	Union	1	25,645.00
Bell Union Coal & Mining Co.		Curlew, Ky.	Union	1	84,758.86
Hercules Coal Co.	Hercules	Curlew, Ky.	Union	1	34,302.30
Producers Coal Co.	Producers	Morganfield, Ky.	Union	1	17,850.00
Madison Coal Corp.	No. 11	Waverly, Ky.	Union	1	442,609.00
Morganfield Coal & Mining Co.		Dekoran, Ky.	Union	1	38,659.05
Kingston Coal Mining Co.		Morganfield, Ky.	Union	1	40,416.88
Hughlan Coal Co.		Morganfield, Ky.	Union	1	42,702.52
Total tonnage					1,165,205.95

Mines Not Co-operating.

Blue Bell Coal Co.	Curlew, Ky.	Union	1	.....
M. F. Devine Coal Co.	Hawesville, Ky.	Handcock	2	6,708.00
L. S. Powers	Henretta	Handcock	2	640.00
G. W. Newman Co.	Newman	Handcock	2	4,240.00
Total tonnage				10,588.00
Beaver Dam Coal Co.	Williams	McHenry, Ky.	Ohio	210,700.00
Beaver Dam Coal Co.	Taylor	Beaver Dam, Ky.	Ohio	156,847.00
C. W. Wells Coal Co.	Ellis	Deanfield, Ky.	Ohio	39,366.08
West Hartford Coal Co.		Hartford, Ky.	Ohio	3,754.56
Render Coal Co.	Render	McHenry, Ky.	Ohio	54,604.00
Martin & Polock Coal Co.		Cromwell, Ky.	Ohio	7,127.00
Bishop Coal Co.		Centertown, Ky.	Ohio	28,181.41
Broadway Coal Mining Co.	Broadway	Simmons, Ky.	Ohio	123,942.00
Kentucky Coal Co.	Echols	Echols, Ky.	Ohio	113,495.63
Kimbley Coal Co.	Kimbley	Centertown, Ky.	Ohio	44,902.40
Rockport Coal Co., Inc.	Crown	Rockport, Ky.	Ohio	112,678.37
Rockport Coal Co.	No. 2	Centertown, Ky.	Ohio	33,901.64
Holt Bros. Mining Co.		McHenry, Ky.	Ohio	106,027.60
Tichenor Coal Co.		McHenry, Ky.	Ohio	68,013.00
Total tonnage				1,003,541.32
Geo. H. Rudy Co.		Owensboro, Ky.	Davies	26,421.00
Clark Mfg. Cool Co.		Owensboro, Ky.	Davies	1,195.00
Total tonnage				27,616.00
Maglinger Coal Mining Co.		Owensboro, Ky.	Davies	.....
Miller & Overstreet Co.		Owensboro, Ky.	Davies	.....
Lilly Mead Coal Co.		Owensboro, Ky.	Davies	.....
Superior Coal Co.		Owensboro, Ky.	Davies	.....
J. Lee Rudy Coal Co.		Owensboro, Ky.	Davies	.....
Turner Coal Co.	Turner	Island, Ky.	McLean	.....
White Coal Mining Co.	White	Island, Ky.	McLean	18,199.00
E. M. F. Coal Co.		Island, Ky.	McLean	56,198.89
E. S. Randall Coal Co.		Island, Ky.	McLean	55,225.29
G. W. Davis Coal Co.		Island, Ky.	McLean	18,148.75
Jarvis & Henry Co.		Island, Ky.	McLean	1,100.00
		Island, Ky.	McLean	1,045.00

Mines Not Co-operating

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Elbert Bowman Coal Co.		Island, Ky.	McLean	2	1,030.00
John Penrod Coal Co.		Island, Ky.	McLean	2	2,346.00
J. D. Hall Coal Co.		Island, Ky.	McLean	2	980.00
J. W. Wood Coal Co.		Island, Ky.	McLean	2	2,500.00
Total tonnage					156,763.93
Lugaro Coal Co.		Island, Ky.	McLean	2	.....
Bob Davis Coal Co.		Island, Ky.	McLean	2	.....
W. G. Duncan Coal Co.	Graham	Greenville, Ky.	Muhlenberg	2	374,325.85
W. G. Duncan Coal Co.	Luzerne	Greenville, Ky.	Muhlenberg	2	211,218.00
Phoenix Coal Co.	No. 1	Greenville, Ky.	Muhlenberg	2	90,453.81
Phoenix Coal Co.	No. 2	Tarna, Ky.	Muhlenberg	2	64,795.45
Pacific Coal Mining Co.	Gish	Mercer, Ky.	Muhlenberg	2	113,968.12
Crescent Coal Co.		Bevier, Ky.	Muhlenberg	2	181,048.00
Liberty Coal Mining Co.		Hillside, Ky.	Muhlenberg	2	80,051.16
Hayden Coal Co.		Mercer, Ky.	Muhlenberg	2	31,794.00
Beaver Coal Co., Inc.		Cleaton, Ky.	Muhlenberg	2	178,731.53
Kirk Coal Co.	No. 1	Beech Creek, Ky.	Muhlenberg	2	108,079.00
Gibraltar C. & M. Co.	Gibraltar	Central City, Ky.	Muhlenberg	2	203,584.00
Gibraltar C. & M. Co.	Holt	Central City, Ky.	Muhlenberg	2	119,498.00
Green River Collieries	Green River	Mogg, Ky.	Muhlenberg	2	50,547.29
G. C. Nelson Coal Co.		Greenville, Ky.	Muhlenberg	2	85.00
Greenville Coal Co.	Pawderly	Pawderly, Ky.	Muhlenberg	2	180,865.00
Greenville Fuel Co.		Greenville, Ky.	Muhlenberg	2	2,058.00
Greenville Coal Co.	Martwick	Greenville, Ky.	Muhlenberg	2	164,125.00
Beech Creek Coal Co.	Beech Creek	Beech Creek, Ky.	Muhlenberg	2	201,238.10
Jourdain Coal Co.		Central City, Ky.	Muhlenberg	2	400.00
Mercer Coal Co.	Mercer	Central City, Ky.	Muhlenberg	2	121,513.00
Madisonville Coal Corp.	No. 10	Central City, Ky.	Muhlenberg	2	273,395.00
Block Well Bros. Co.		Midland, Ky.	Muhlenberg	2	878.00
Middle West Coal Co.		Depoy, Ky.	Muhlenberg	2	48,967.00
V. Fortney Coal Co.		Greenville, Ky.	Muhlenberg	2	1,427.00
W. A. Wickliff Coal Co.		Browder, Ky.	Muhlenberg	2	208,057.00
Nelson Creek Coal Co.		Nelson, Ky.	Muhlenberg	2	87,770.40
Wells & Lovell Co.		Greenville, Ky.	Muhlenberg	2	1,769.00
Salsburg Coal Co.	Hillside	Hillside, Ky.	Muhlenberg	2	20,379.52
Kentucky Midland Coal Co.	Midland	Midland, Ky.	Muhlenberg	2	142,439.03
Hazel Creek Coal Co.		Yost, Ky.	Muhlenberg	2	16,623.57

Mines Not Co-operating.

Lewis Beneitz Coal Co.	Greenville, Ky.	Muhlenberg	2	.....	.....
Belton Coal Co.	Yost, Ky.	Muhlenberg	2	.....	.....
Frankel Coal Co.	Hillside, Ky.	Muhlenberg	2	.....	.....
Gibraltar Coal Co.	Central City, Ky.	Muhlenberg	2	.....	.....
Holt Brothers Co.	Central City, Ky.	Muhlenberg	2	.....	.....
H. M. Madix Coal Co.	Greenville, Ky.	Muhlenberg	2	.....	.....
Oaklan Coal Co.	Greenville, Ky.	Muhlenberg	2	.....	.....
Curr Coal Co.	Pawderly, Ky.	Muhlenberg	2	.....	.....
Thompson Coal Co.	Drakesboro, Ky.	Muhlenberg	2	.....	.....
Diamond Block Coal Corp.	Drakesboro, Ky.	Muhlenberg	2	.....	.....
Black Diamond Coal & Mining Co.	Drakesboro, Ky.	Muhlenberg	2	.....	.....
Victor Fuel Co.	Drakesboro, Ky.	Muhlenberg	2	.....	.....
Carbon Mining Co.	Princess, Ky.	Boyd	3	.....	9,589.00
Frank H. Celre Co.	Celre 2-3	Boyd	3	.....	3,562.00
Thomas Coal Co.	Ashland, Ky.	Boyd	3	.....	4,283.00
Princess Coal Co.	Princess, Ky.	Boyd	3	.....	5,653.00
Big Run Coal Co.	Princess, Ky.	Boyd	3	.....	43,319.01
Wm. Wurst Co.	No. 8	Boyd	3	.....	19,300.00
Ashland Iron & Mining Co.	Rush, Ky.	Boyd	3	.....	42,399.83
				Total tonnage	128,105.84
Kentucky Hicarbon Coal Co.	Hicarbon, Ky.	Boyd	3	.....	.....
Lee Coal Co.	Clearfield, Ky.	Rowan	3	.....	2,760.12
Furnace Gap Coal Co.	Crawfield, Ky.	Clay	3	.....	10,521.11
Miser Coal Co.	Manchester, Ky.	Clay	3	.....	906.00
Hensley Coal Co.	Manchester, Ky.	Clay	3	.....	8,414.04
Sun Coal Co.	Sibert, Ky.	Clay	3	.....	8,247.15
Gregory Coal Co.	Crawfield, Ky.	Clay	3	.....	133.50
				Total tonnage	28,221.80

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Queen Blue Gem Coal Co.	Manchester, Ky.	Clay	3	.....
Columbia Panama Coal Co.	Manchester, Ky.	Clay	3	.....
Clay County Coal Co.	Himo, Ky.	Clay	3	.....
Mayer & Jarrard Coal Co.	Manchester, Ky.	Clay	3	.....
Horse Creek Coal Co.	Manchester, Ky.	Clay	3	.....
Manchester Coal & Mfg. Co.	Manchester, Ky.	Clay	3	.....
Little Coal Co.	Manchester, Ky.	Clay	3	.....
Jones Bros. Coal Co.	Manchester, Ky.	Clay	3	28,152.90
Ellsler Coal Co.	Saldee, Ky.	Breathitt	3	9,380.25
J. M. Gabbard Coal Co.	Elkataka, Ky.	Breathitt	3	6,500.00
Riverside Coal Co.	Gunn, Ky.	Breathitt	3	28,953.00
Pan Handle Coal Co.	Jackson, Ky.	Breathitt	3	14,423.00
R. T. Davis Coal Co.	Jackson, Ky.	Breathitt	3	47,434.00
Kentucky River Mining Co.	Frozen Creek, Ky.	Breathitt	3	8,751.75
Jackson Block Coal Co.	Jackson, Ky.	Breathitt	3	22,054.00
Breathitt Coal Co.	Elkataka, Ky.	Breathitt	3	1,600.00
Ruthanne Coal Co.	Wolf Coal, Ky.	Breathitt	3	12,281.70
Progressive Coal Co.	No. 1-2-3	Calla, Ky.	Breathitt	3	4,377.00
Spencer & Brophy Coal Co.	Progressive	Jackson, Ky.	Breathitt	3	1,185.50
Bear Branch Coal Co.	Simpson, Ky.	Breathitt	3	9,037.00
Emory Cain Coal Co.	Jackson, Ky.	Breathitt	3	22,326.54
Mowberry & Robinson Co.	Quick Sand, Ky.	Breathitt	3	26,332.00
Total tonnage					242,788.64
Barwick Coal Co.	Barwick, Ky.	Breathitt	3	.....
Lick Branch Coal Co.	Saldee, Ky.	Breathitt	3	.....
Anjean Coal Co.	Elkataka, Ky.	Breathitt	3	.....
Kash Davis Coal Co.	Haddix	Breathitt	3	.....
Kentucky Coal Supply Co.
(362 Georgetown St., Lexington, Ky.)	Lexington, Ky.	Breathitt	3	.....
J. B. Jewell Coal Co.
(682 McClelland Bldg., Lexington, Ky.)	Lexington, Ky.	Breathitt	3	.....
Griffith & Tolent Co.	Elkataka, Ky.	Breathitt	3	.....
Friend Kash Coal Co.	Irvin, Ky.	Breathitt	3	152,429.00
	Cannel City, Ky.	Morgan	3	.....

Mines Not Co-operating.

Lee Coal Co.	Lee	Clearfield, Ky.	3	11,943.74
Redwine Cannel Coal Co.	Redwine, Ky.	Morgan	3	4,715.63
J. B. Hickory Cannel Co.	Ruch Branch	Morgan	3	1,842.00
J. B. Hickory Cannel Co.	J. B.	Morgan	3	9,666.17
Total tonnage				180,696.54
Pine Knott Coal Co.	Lenox, Ky.	Morgan	3	...
Morgan Elliott Coal Co.	Redwine, Ky.	Morgan	3	...
Lenox Bituminous Coal Co.	Lenox, Ky.	Morgan	3	...
Analine Coal Co.	Loveland, Ky.	Morgan	3	...
Rush Branch Cannel Coal Co.	Rush Branch, Ky.	Morgan	3	...
C. B. Martin Coal Co.	Redwine, Ky.	Morgan	3	...
Meadows Cannel Coal Co.	Loveland, Ky.	Morgan	3	...
Paint Cliff Mining Co.	Paint Cliff	McCreary	3	19,824.00
Carnargo Coal Co.	Carnargo	McCreary	3	43,132.80
Fidelity Coal Mining Co.	West Jellico	McCreary	3	180,080.05
Bry-Mac Coal Co.	Strunk, Ky.	McCreary	3	44,992.00
J. D. Erskin Coal Co.	Erskin	McCreary	3	28,459.00
St. Mitchell Coal Co.	Oz, Ky.	McCreary	3	3,361.00
Premier Coal Co.	Yamacraw, Ky.	McCreary	3	5,097.00
Eagle Coal Co.	Barren Fork	McCreary	3	47,632.00
U. S. Coal & Mining Co.	Wiborg	McCreary	3	23,614.00
Stearns Coal & Lumber Co.	Fidelity	McCreary	3	384,223.00
Total tonnage				780,404.85
Tate & Souleyret Co.	Indian Head, Ky.	McCreary	3	...
Indian Creek Coal Co.	Indian Head, Ky.	McCreary	3	...
Taylor & Wilson Co.	Wiborg, Ky.	McCreary	3	...
Beattyville Coal Co.	No. 2	Lee	3	60,019.00
Ky.-River Coal Co.	Beattyville, Ky.	Lee	3	4,986.00
Thos. James & Co.	Beattyville, Ky.	Lee	3	1,731.00
Total tonnage				66,736.00

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Beattyville Fuel Co.		Beattyville, Ky.	Lee	3	.....
Relco Coal Mining Co.		Ida May, Ky.	Lee	3	.....
Biggs Coal Co.		Banford, Ky.	Lee	3	.....
Kentucky Hills Mining Co.		Ida May, Ky.	Lee	3	.....
Wm. John & Co.		Ida May, Ky.	Lee	3	.....
M. C. & H. Coal Co.		Heidenberg, Ky.	Lee	3	.....
W. C. Price Co.		Beattyville, Ky.	Lee	3	.....
White Ash Fuel Co.		Beattyville, Ky.	Lee	3	.....
Tyrone Coal Co.		Beattyville, Ky.	Lee	3	.....
Crescent Coal Co.		Viva, Ky.	Laurel	3	3,310.00
Rockcastle River Coal Co.		Livingston, Ky.	Laurel	3	3,134.40
Total tonnage					9,444.40
F. S. Jones		Viva, Ky.	Laurel	3	.....
Jones & Harrison Coal Co.		Viva, Ky.	Laurel	3	.....
J. & G. Cloyd Coal Co.		Viva, Ky.	Laurel	3	.....
L. M. Parker Coal Co.		East Bernstadt, Ky.	Laurel	3	.....
J. R. McNeel		East Bernstadt, Ky.	Laurel	3	.....
Goose Creek Cool Co		London, Ky.	Laurel	3	.....
James Adams Co.		London, Ky.	Laurel	3	.....
R. Brown Co.		Pittsburgh, Ky.	Laurel	3	.....
East Bernstadt		East Bernstadt, Ky.	Laurel	3	.....
Forris Coal Co.		East Bernstadt, Ky.	Laurel	3	.....
Fermie Coal Co.		East Bernstadt, Ky.	Laurel	3	.....
Frantz Jellico Coal Co.		East Bernstadt, Ky.	Laurel	3	.....
Horse Shoe Coal Co.	Beatty	East Bernstadt, Ky.	Laurel	3	.....
C. L. McDowell Co.		East Bernstadt, Ky.	Laurel	3	.....
McCarthy Coal Co.		East Bernstadt, Ky.	Laurel	3	.....
Mountain Gem Coal Mining Co.		East Bernstadt, Ky.	Laurel	3	.....
New Diamond Coal Co.		Louisville, Ky.	Laurel	3	.....
Pritchard Coal Co.		East Bernstadt, Ky.	Laurel	3	.....
S. J. Quinn Co.		East Bernstadt, Ky.	Laurel	3	.....
C. L. Riddell Co.	Silver Creek	East Bernstadt, Ky.	Laurel	3	.....
Riley & Davidson		East Bernstadt, Ky.	Laurel	3	.....
Sherman & Davi		East Bernstadt, Ky.	Laurel	3	.....
T. P. Watkins		East Bernstadt, Ky.	Laurel	3	.....
Wiggin Coal Co		East Bernstadt, Ky.	Laurel	3	.....

Mines Not Co-operating.

Alpine Collieries Co.	Alpine, Ky.	3.	.....	8,019.42
Midland Coal Co.	Rush, Ky.	3.	.....	620.00
G. W. McNeel Coal Co.	Princess, Ky.	3.	.....	9,231.53
Little Fork Coal Co.	Willard, Ky.	3.	.....	31,026.26
Ky. Gem Coal Co.	Kouns	3.	.....	31,158.54
Johns Run Coal Co.	Norton Branch	3.	.....	60,025.53
Harbison-Walker Ref. Co.	Grayson, Ky.	3.	.....	44,860.77
Gen Refractory Co.	Denton, Ky.	3.	.....	11,260.80
Estate N. Thayer	Hitchens, Ky.	3.	.....	7,579.00
Willard Coal Co.	Lost Creek	3.	.....	1,532.00
Mill Branch Coal Co.	Partlow, Ky.	3.	.....	.....
	Willard, Ky.	3.	.....	.....
	Kilgore, Ky.	3.	.....	.....
Total tonnage				206,513.84
Lick Branch Coal Co.	Willard, Ky.	3.	.....	.....
C. R. Bowling	Bells Trace, Ky.	3.	.....	.....
Dry Fork Coal Co.	Bells Trace, Ky.	3.	.....	.....
North Jellico Coal Co.	Olive Hill, Ky.	3.	.....	.....
Freil Coal Co.	Kilgore, Ky.	3.	.....	.....
North Jellico Coal Co.	Wilcox, Ky.	4.	.....	107,911.11
North Jellico Coal Co.	Wilton, Ky.	4.	.....	61,512.00
Wheeler Coal Co.	Trooper, Ky.	4.	.....	69,821.33
Wheeler Coal Co.	Trooper, Ky.	4.	.....	17,981.00
Wheeler Coal Co.	No. 2	4.	.....	16,838.05
Wheeler Coal Co.	No. 3	4.	.....	16,128.62
Carter Coal Co.	Trooper	4.	.....	21,748.08
Carter Coal Co.	Warren	4.	.....	19,494.00
Carter Coal Co.	Anchor	4.	.....	11,396.40
Jackson Coal Mining Co.	Dean	4.	.....	56,331.00
Paige Jellico Coal Co.	Hugh	4.	.....	60,400.00
Kanawha Knox Coal Co.	No. 1	4.	.....	7,688.50
Charles Coal Co.	Elys, Ky.	4.	.....	6,141.37
Richland Coal Co.	Artemus, Ky.	4.	.....	4,572.00
Smith-Riley Coal Co.	Pineville, Ky.	4.	.....	4,613.00
Greasy Gap Coal Co.	Barbourville, Ky.	4.	.....	2,712.00
Burgess Coal Co.	Wheeler, Ky.	4.	.....	10,368.00
J. F. Grays Coal Co.	Barbourville, Ky.	4.	.....	5,539.05
Ennis Coal Co.	Grays, Ky.	4.	.....	27,535.00
Roth Coal Co.	Himyar, Ky.	4.	.....	.....
	Wheeler, Ky.	4.	.....	.....
Franklin Coal Co.	Roth No. 2	4.	.....	.....
	Artemus, Ky.	4.	.....	7,952.40

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Rossland Coal Mining Co.		Grays, Ky.	Knox	4	5,610.00
Gordon Miller C. & Coke Co.		Grays, Ky.	Knox	4	17,224.00
Richland Creek Coal Co.		Barbourville, Ky.	Knox	4	5,170.70
Trace Branch Coal Co.		Barbourville, Ky.	Knox	4	1,799.00
K. D. Blue Gem Coal Co.	K. D.	Barbourville, Ky.	Knox	4	5,468.43
Sun Coal Co.		Flat Lick, Ky.	Knox	4	1,644.00
Total tonnage					573,599.83
Hear Jay Blue Gem Coal Co.		Barbourville, Ky.	Knox	4	.....
Highland Blue Gem Coal Co.		Barbourville, Ky.	Knox	4	.....
Jenkins-Price Coal Co.		Artemus, Ky.	Knox	4	.....
Turner Jellico Coal Co.		Emmanuel, Ky.	Knox	4	.....
Huron Coal Co.		Barbourville, Ky.	Knox	4	.....
Joe Wright Co.		Gray, Ky.	Knox	4	.....
W. L. Blue Gem Coal Co.		Artemus, Ky.	Knox	4	.....
Steep Ridge Coal Co.		Gray, Ky.	Knox	4	.....
Steel & Adler		Girdler, Ky.	Knox	4	.....
Richfield Coal Co.		Wheeler, Ky.	Knox	4	.....
J. W. Parker		Gray, Ky.	Knox	4	.....
New Tazewell Coal Co.		Lay, Ky.	Knox	4	.....
Lee Mullins		Barbourville, Ky.	Knox	4	.....
M. T. Lindsey Coal & Supply Co.		Artemus, Ky.	Knox	4	.....
Mason Coal Co.		Emmanuel, Ky.	Knox	4	.....
Pine Mountain Blue Gem Co.		Jellico, Tenn.	Knox	4	.....
Pickering Branch Coal Co.		Wilton, Ky.	Knox	4	.....
Dry Branch Coal Co.		Gray, Ky.	Knox	4	.....
Hughes Horse Creek Coal Co.		Barbourville, Ky.	Knox	4	.....
Charleston Jellico Coal Co.		Gray, Ky.	Knox	4	.....
Patterson Creek Coal Co.	Patterson	Pollyton, Ky.	Whitley	4	4,629.35
Bon Jellico Coal Co.	Bon	Bon Jellico, Ky.	Whitley	4	42,605.00
Busk Hollow Coal Co.		Jellico, Tenn.	Whitley	4	31,017.09
Drake Blue Gem Coal Co.	No. 1-2	Nevisdale, Ky.	Whitley	4	19,886.00
Mahan Jellico Coal Co.	Mahan	Packard, Ky.	Whitley	4	101,404.00
Proctor Coal Co.	Proctor	Redash, Ky.	Whitley	4	17,148.00
Wallan Jellico Coal Co.	Wallan	Gatlin, Ky.	Whitley	4	6,166.77
Jellico Coal Mining Co.	Mount Ash	Mount Ash, Ky.	Whitley	4	31,117.16
Main Jellico Coal Co.		Barbourville, Ky.	Whitley	4	90,416.37

Mines Not Co-operating.

Garnet Jellico Coal Co.	Williamsburg, Ky.	Whitley	4	217,187.03
Steins Blue Gem Coal Co.	Redash, Ky.	Whitley	4	9,212.00
Saxton Coal Co.	Saxton, Ky.	Whitley	4	4,305.00
C. C. Vernillion Co.	Jellico, Tenn.	Whitley	4	9,759.69
Eates Jellico Coal Co.	Pleasant View, Ky.	Whitley	4	13,238.00
Drake Blue Gem Co.	Packard, Ky.	Whitley	4	17,603.00
Polly Coal Co.	Packard, Ky.	Whitley	4	5,732.00
Mammoth Blue Gem Coal Co.	Gatlinf, Ky.	Whitley	4	15,661.00
Total tonnage				575,834.64
New Watts Jellico Coal Co.	Woffard, Ky.	Whitley	4	...
Perkins Harlan Coal Co.	Williamsburg, Ky.	Whitley	4	...
Gatlinf Coal Co.	Gatlinf, Kv.	Whitley	4	...
Gatfield Jellico Coal Co.	Williamsburg, Ky.	Whitley	4	...
Gatlinf Coal Co.	Gatlinf, Kv.	Whitley	4	...
Evans Jellico Coal Co.	Jellico, Tenn.	Whitley	4	...
Appalachian Jellico Coal Co.	Corbin, Kv.	Whitley	4	...
Bennetts Fork Coal Mining Co.	Boswarth, Ky.	Bell	5	48,918.00
Bailey Coal Co.	Blanche, Kv.	Bell	5	5,276.55
J. B. Straight Creek Mining Co.	Four Mile, Ky.	Bell	5	25,211.00
J. B. Blue Gem Coal Co.	Hosman, Ky.	Bell	5	37,222.00
Fern Lake Fuel Co.	Middlesboro, Ky.	Bell	5	13,167.00
Home Run Coal Co.	Middlesboro, Ky.	Bell	5	18,888.00
New Straight Creek Mining Co.	Pineville, Kv.	Bell	5	6,529.40
Utility Gas Coal Co.	Pineville, Kv.	Bell	5	16,714.75
Vinson Harlan Coal Co.	Pineville, Kv.	Bell	5	2,473.22
Pioneer Coal Co.	Pioneer No. 1	Bell	5	92,195.67
Pine Ridge Coal Mining Co.	Italy	Bell	5	21,681.00
Pruden Coal & Coke Co.	Tinsley, Kv.	Bell	5	70,856.00
Harlan Liberty Coal Co.	Evarts, Kv.	Bell	5	21,944.32
Ky.-Cardinal Coal Co.	Cardinal, Kv.	Bell	5	31,217.85
Yellow Creek Coal Co.	Roswarth, Ky.	Bell	5	125,163.00
Chenoe Hignite Coal Co.	Chenoe, Ky.	Bell	5	40,157.00
Congress Coal Mining Co.	Shamrock, Ky.	Bell	5	43,048.25
Coleman Mining Co.	Cary, Kv.	Bell	5	23,424.80
Grave Creek Coal Co.	Colmar, Ky.	Bell	5	35,374.00
Climax Coal Co.	Shamrock, Ky.	Bell	5	57,708.75
Cain Coal Co.	Keency	Bell	5	15,936.00

ANNUAL REPORT OF COAL MINES IN KENTUCKY FOR YEAR 1920.

Name of County	Name of Mine	Post Office	County	District	Tonnage
Norton Coal & Mining Co.	No. 1	Nortonville, Ky.	Hopkins	1	175,757.20
Norton Coal & Mining Co.	No. 2	Nortonville, Ky.	Hopkins	1	43,848.54
Norton Coal & Mining Co.	St. Charles	Nortonville, Ky.	Hopkins	1	32,525.86
St. Bernard Mining Co.	No. 3	Farlington, Ky.	Hopkins	1	150,693.00
St. Bernard Mining Co.	No. 9	Farlington, Ky.	Hopkins	1	118,289.00
St. Bernard Mining Co.	Hecla	Farlington, Ky.	Hopkins	1	97,737.00
St. Bernard Mining Co.	Arnold	Farlington, Ky.	Hopkins	1	134,463.00
St. Bernard Mining Co.	No. 11	Farlington, Ky.	Hopkins	1	211,534.00
St. Bernard Mining Co.	Shamrock	Farlington, Ky.	Hopkins	1	235,284.00
St. Bernard Mining Co.	Diamond	Farlington, Ky.	Hopkins	1	148,151.00
Buck Run Coal Co.		Farlington, Ky.	Hopkins	1	2,201.25
Hart Coal Co.		St. Charles, Ky.	Hopkins	1	11,762.00
Grapevine Coal Co.		Madisonville, Ky.	Hopkins	1	162,848.02
Coil Coal Co.	Coil	Madisonville, Ky.	Hopkins	1	143,619.07
Sunset Coal Co.		Madisonville, Ky.	Hopkins	1	173,025.16
Renicke Coal & Mining Co.	Renicke	Madisonville, Ky.	Hopkins	1	172,962.68
Rose Creek Coal & Coke Co.	Rose Creek	Madisonville, Ky.	Hopkins	1	41,302.04
Sterling Coal Co.	Sterling	Madisonville, Ky.	Hopkins	1	782,806.69
Pontiac Coal Co.		Madisonville, Ky.	Hopkins	1	7,314.00
Caney Creek Coal Co.	Caney Creek	Madisonville, Ky.	Hopkins	1	6,935.00
Ilsey Mining Co.		Madisonville, Ky.	Hopkins	1	67,230.00
Mason Mining Co.		Madisonville, Ky.	Hopkins	1	35,490.03
Woodruff Coal Co.		Madisonville, Ky.	Hopkins	1	1,370.00
D. G. Furgeson		St. Charles, Ky.	Hopkins	1	2,639.00
Dunning-Gordon Mining Co.		Nortonville, Ky.	Hopkins	1	962.95
Hamblett Coal Co.		St. Charles, Ky.	Hopkins	1	14,076.48
Circle City Lead Co.		Madisonville, Ky.	Hopkins	1	51,367.00
Mortons Coal Co.	Luton	Nebo, Ky.	Hopkins	1	400.00
Victoria Coal Co.		Mortons, Ky.	Hopkins	1	175,667.00
		Madisonville, Ky.	Hopkins	1	
Total tonnage					3,200,260.97

Mines Not Co-operating.

A. M. Alexander Coal Co.	Madisonville, Ky.	Hopkins	1	.....	.....
Brent Hart Coal Co.	Mortons Gap, Ky.	Hopkins	1	.....	.....
West Jellico Coal Co.	West Jellico	St. Charles, Ky.	Hopkins	1	.....
Whippoorwill Mining Co.	St. Charles, Ky.	Hopkins	1	.....	.....
Memphis Coal Mining Co.	Petersburg	Mannington, Ky.	Christian	1	107,755.00
Memphis Coal Mining Co.	Dixie Williams	Mannington, Ky.	Christian	1	20,180.09
Empire Coal Co.	Empire	Crofton, Ky.	Christian	1	36,202.00
Williams Coal Co.	Williams	Mannington, Ky.	Christian	1	.....
				Total tonnage	67,137.09
Southland Coal Co.	No. 3	Henderson, Ky.	Henderson	1	33,757.95
Southland Coal Co.	No. 1	Henderson, Ky.	Henderson	1	156,347.05
Dixie Coal Co.	Flower Hill	Spottsville, Ky.	Henderson	1	100.00
Panama Coal Co.	Panama	Robards, Ky.	Henderson	1	107,264.06
Pittsburg Coal Co.	Pittsburg	Basket, Ky.	Henderson	1	184,419.34
Nicholson Mining & Mfg. Co.	Dixie	Henderson, Ky.	Henderson	1	19,260.00
John Archbold Co.	Hot Stuff	Bluff City, Ky.	Henderson	1	10,755.00
				Total tonnage	511,903.40
Knoe Creek Coal Co.	Corydon, Ky.	Henderson	1	.....	.....
Corydon Coal Co.	Henderson, Ky.	Henderson	1	.....	.....
West Kentucky Coal Co.	No. 3	Wheatcroft, Ky.	Webster	1	62,790.10
West Kentucky Coal Co.	No. 4	Wheatcroft, Ky.	Webster	1	71,420.98
West Kentucky Coal Co.	No. 5	Wheatcroft, Ky.	Webster	1	51,680.67
West Kentucky Coal Co.	No. 6	Wheatcroft, Ky.	Webster	1	14,731.00
West Kentucky Coal Co.	No. 7	Wheatcroft, Ky.	Webster	1	212,917.82
Victory Coal Co.	Providence, Ky.	Webster	1	.....	20,295.00
St. Bernard Mining Co.	Luton	Providence, Ky.	Webster	1	52,669.00
Providence Coal & Mining Co.	Providence, Ky.	Webster	1	.....	173,289.58
Luton Mining Co.	Luton No. 3	Providence, Ky.	Webster	1	43,666.50
Ruckman Coal Co.	Ruckman	Providence, Ky.	Webster	1	132,276.00
Young & Morgan Co.	Highland	Providence, Ky.	Webster	1	31,345.00
Highland Mining Co.	Highland	Providence, Ky.	Webster	1	86,816.00
Hall Force Coal Co.	Providence, Ky.	Webster	1	.....	38,578.14
Clifty Consolidated Coal Co.	Providence, Ky.	Webster	1	.....	139,609.00
Diamond Coal Co.	Diamond	Providence, Ky.	Webster	1	130,123.00
Leeper Coal Co.	Leeper	Providence, Ky.	Webster	1	26,312.00
				Total tonnage	1,288,519.79

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Queen Blue Gem Coal Co.	Manchester, Ky.	Clay	3	.....
Columbia Panama Coal Co.	Manchester, Ky.	Clay	3	.....
Clay County Coal Co.	Himo, Ky.	Clay	3	.....
Mayer & Jarrard Coal Co.	Manchester, Ky.	Clay	3	.....
Horse Creek Coal Co.	Manchester, Ky.	Clay	3	.....
Manchester Coal & Mfg. Co.	Manchester, Ky.	Clay	3	.....
Little Coal Co.	Manchester, Ky.	Clay	3	.....
Jones Bros. Coal Co.	Jackson, Ky.	Breathitt	3	28,152.90
Ellser Coal Co.	Saldee, Ky.	Breathitt	3	9,380.25
J. M. Gabbard Coal Co.	Elkatawa, Ky.	Breathitt	3	6,500.00
Riverside Coal Co.	Gunn, Ky.	Breathitt	3	28,953.00
Pan Handle Coal Co.	Jackson, Ky.	Breathitt	3	14,423.00
R. T. Davis Coal Co.	Jackson, Ky.	Breathitt	3	47,434.00
Kentucky River Mining Co.	Frozen Creek, Ky.	Breathitt	3	8,751.75
Jackson Block Coal Co.	Jackson, Ky.	Breathitt	3	22,054.00
Breathitt Coal Co.	Elkatawa, Ky.	Breathitt	3	1,600.00
Ruthanne Coal Co.	Wolf Coal, Ky.	Breathitt	3	12,281.70
Progressive Coal Co.	No. 1-2-3	Calla, Ky.	Breathitt	3	4,377.00
Spencer & Brophy Coal Co.	Progressive	Jackson, Ky.	Breathitt	3	1,185.50
Bear Branch Coal Co.	Simpson, Ky.	Breathitt	3	9,037.00
Emory Cain Coal Co.	Jackson, Ky.	Breathitt	3	22,326.54
Mowberry & Robinson Co.	Quick Sand, Ky.	Breathitt	3	26,332.00
Total tonnage					242,788.64
Barwick Coal Co.	Barwick, Ky.	Breathitt	3	.....
Lick Branch Coal Co.	Saldee, Ky.	Breathitt	3	.....
Anjean Coal Co.	Elkatawa, Ky.	Breathitt	3	.....
Kash Davis Coal Co.	Haddix	Breathitt	3	.....
Kentucky Coal Supply Co., (362 Georgetown St., Lexington, Ky.)	Lexington, Ky.	Breathitt	3	.....
J. B. Jewell Coal Co.	Lexington, Ky.	Breathitt	3	.....
(682 McClelland Bldg., Lexington, Ky.)	Lexington, Ky.	Breathitt	3	.....
Griffith & Tolent Co.	Elkatawa, Ky.	Breathitt	3	.....
Friend Kash Coal Co.	Irvin, Ky.	Breathitt	3	.....
Kentucky Block Coal Co.	Cannel City, Ky.	Morgan	3	152,429.00

Mines Not Co-operating.

Lee Coal Co.	Lee	Clearfield, Ky.	Morgan	3	11,943.74
Redwine Cannel Coal Co.		Redwine, Ky.	Morgan	3	4,715.63
J. B. Hickory Cannel Co.	Ruch Branch	Redwine, Ky.	Morgan	3	1,842.00
J. B. Hickory Cannel Co.	J. B.	Redwine, Ky.	Morgan	3	9,666.17
Total tonnage					180,696.54
Pine Knott Coal Co.		Lenox, Ky.	Morgan	3	...
Morgan Elliott Coal Co.		Redwine, Ky.	Morgan	3	...
Lenox Bituminous Coal Co.		Lenox, Ky.	Morgan	3	...
Analine Coal Co.		Loveland, Ky.	Morgan	3	...
Rush Branch Cannel Coal Co.		Rush Branch, Ky.	Morgan	3	...
C. B. Martin Coal Co.		Redwine, Ky.	Morgan	3	...
Meadows Cannel Coal Co.		Loveland, Ky.	Morgan	3	...
Paint Cliff Mining Co.	Paint Cliff	Paint Cliff, Ky.	McCreary	3	19,824.00
Camaigo Coal Co.	Camiago	Worley, Ky.	McCreary	3	43,132.80
Fidelity Coal Mining Co.		Exodus, Ky.	McCreary	3	180,080.05
Bry-Mac Coal Co.	West Jellico	Strunk, Ky.	McCreary	3	44,992.00
J. D. Erskin Coal Co.	Erskin	Parkers Lane, Ky.	McCreary	3	28,459.00
St. Michell Coal Co.		Oz, Ky.	McCreary	3	3,351.00
Premier Coal Co.		Yamacraw, Ky.	McCreary	3	5,097.00
Eagle Coal Co.	Barren Fork	Barren Fork, Ky.	McCreary	3	47,632.00
U. S. Coal & Mining Co.	Wiborg	Wiborg, Ky.	McCreary	3	23,614.00
Stearns Coal & Lumber Co.	Fidelity	Stearns, Ky.	McCreary	3	384,223.00
Total tonnage					780,404.85
Tate & Souleyret Co.		Indian Head, Ky.	McCreary	3	...
Indian Creek Coal Co.		Indian Head, Ky.	McCreary	3	...
Taylor & Wilson Co.		Wiborg, Ky.	McCreary	3	...
Beattyville Coal Co.	No. 2	Beattyville, Ky.	Lee	3	60,019.00
Ky.-River Coal Co.	Harris	Beattyville, Ky.	Lee	3	4,986.00
Thos. James & Co.		Beattyville, Ky.	Lee	3	1,731.00
Total tonnage					66,736.00

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Elbert Bowman Coal Co.	.....	Island, Ky.	McLean	2	1,030.00
John Penrod Coal Co.	.....	Island, Ky.	McLean	2	2,346.00
J. D. Hall Coal Co.	.....	Island, Ky.	McLean	2	980.00
J. W. Wood Coal Co.	.....	Island, Ky.	McLean	2	2,500.00
Total tonnage					156,763.93
Lugaro Coal Co.	.....	Island, Ky.	McLean	2	.....
Bob Davis Coal Co.	.....	Island, Ky.	McLean	2	.....
W. G. Duncan Coal Co.	Graham	Greenville, Ky.	Muhlenberg	2	374,925.85
W. G. Duncan Coal Co.	Luzerne	Greenville, Ky.	Muhlenberg	2	211,218.00
Phoenix Coal Co.	No. 1	Greenville, Ky.	Muhlenberg	2	90,653.81
Phoenix Coal Co.	No. 2	Tarima, Ky.	Muhlenberg	2	64,795.45
Pacific Coal Mining Co.	Gish	Mercer, Ky.	Muhlenberg	2	113,868.12
Crescent Coal Co.	.....	Bevier, Ky.	Muhlenberg	2	181,048.00
Liberty Coal Mining Co.	.....	Hillside, Ky.	Muhlenberg	2	80,051.16
Hayden Coal Co.	.....	Mercer, Ky.	Muhlenberg	2	31,794.00
Beavert Coal Co., Inc.	.....	Cleaton, Ky.	Muhlenberg	2	178,731.53
Kirk Coal Co.	No. 1	Beech Creek, Ky.	Muhlenberg	2	108,079.00
Gibraltar C. & M. Co.	Gibraltar	Central City, Ky.	Muhlenberg	2	203,584.00
Gibraltar C. & M. Co.	Holt	Central City, Ky.	Muhlenberg	2	119,498.00
Green River Collieries	Green River	Mogg, Ky.	Muhlenberg	2	50,547.29
G. C. Nelson Coal Co.	.....	Greenville, Ky.	Muhlenberg	2	85.00
Greenville Coal Co.	Pawderly	Pawderly, Ky.	Muhlenberg	2	186,865.00
Greenville Fuel Co.	.....	Greenville, Ky.	Muhlenberg	2	2,058.00
Greenville Coal Co.	Martwick	Greenville, Ky.	Muhlenberg	2	164,125.00
Beech Creek Coal Co.	Beech Creek	Beech Creek, Ky.	Muhlenberg	2	201,238.10
Jourdain Coal Co.	.....	Central City, Ky.	Muhlenberg	2	400.00
Mercer Coal Co.	Mercer	Central City, Ky.	Muhlenberg	2	121,513.00
Madisonville Coal Corp.	No. 10	Central City, Ky.	Muhlenberg	2	273,895.00
Block Well Bros. Co.	.....	Midland, Ky.	Muhlenberg	2	878.00
Middle West Coal Co.	.....	Depoy, Ky.	Muhlenberg	2	48,867.00
V. Fortney Coal Co.	.....	Greenville, Ky.	Muhlenberg	2	1,427.00
W. A. Wickliff Coal Co.	.....	Browder, Ky.	Muhlenberg	2	206,057.00
Nelson Creek Coal Co.	.....	Nelson, Ky.	Muhlenberg	2	87,770.40
Wells & Lovell Co.	.....	Greenville, Ky.	Muhlenberg	2	1,769.00
Salsburg Coal Co.	Hillside	Hillside, Ky.	Muhlenberg	2	20,379.52
Kentucky Midland Coal Co.	Midland	Midland, Ky.	Muhlenberg	2	142,439.03
Hazel Creek Coal Co.	.....	Yost, Ky.	Muhlenberg	2	16,523.57
Total tonnage					3,384,069.68

Mines Not Co-operating.

Lewis Benetz Coal Co.	Greenville, Ky.	Muhlenberg	2	.....	.....
Belton Coal Co.	Yost, Ky.	Muhlenberg	2	.....	.....
Frankel Coal Co.	Hillside, Ky.	Muhlenberg	2	.....	.....
Gibraltair Coal Co.	Davy	Muhlenberg	2	.....	.....
Holt Brothers Co.	Central City, Ky.	Muhlenberg	2	.....	.....
H. M. Madix Coal Co.	Central City, Ky.	Muhlenberg	2	.....	.....
Oaklan Coal Co.	Greenville, Ky.	Muhlenberg	2	.....	.....
Curr Coal Co.	Greenville, Ky.	Muhlenberg	2	.....	.....
Thompson Coal Co.	Pawderly, Ky.	Muhlenberg	2	.....	.....
Diamond Block Coal Corp.	Drakesboro, Ky.	Muhlenberg	2	.....	.....
Black Diamond Coal & Mining Co.	Drakesboro, Ky.	Muhlenberg	2	.....	.....
Victor Fuel Co.	Drakesboro, Ky.	Muhlenberg	2	.....	.....
Carbon Mining Co.	Princess, Ky.	Boyd	3	.....	9,589.00
Frank H. Celre Co.	Celre 2-3	Boyd	3	.....	3,562.00
Thomas Coal Co.	Coolton, Ky.	Boyd	3	.....	4,283.00
Princess Coal Co.	Ashland, Ky.	Boyd	3	.....	5,653.00
Big Run Coal Co.	Princess, Ky.	Boyd	3	.....	43,319.01
Wm. Warrst Co.	Princess, Ky.	Boyd	3	.....	19,300.00
Ashland Iron & Mining Co.	Ashland, Ky.	Boyd	3	.....	42,399.83
	Rush, Ky.	Boyd	3	.....	.....
Total tonnage				.....	128,105.84
Kentucky Hicarbon Coal Co.	Hicarbon, Ky.	Boyd	3	.....	.....
Lee Coal Co.	Clearfield, Ky.	Rowan	3	.....	2,760.12
Furnace Gap Coal Co.	Crawfield, Ky.	Clay	3	.....	10,521.11
Miser Coal Co.	Manchester, Ky.	Clay	3	.....	906.00
Hensley Coal Co.	Manchester, Ky.	Clay	3	.....	8,414.04
Sun Coal Co.	Sibert, Ky.	Clay	3	.....	8,247.15
Gregory Coal Co.	Crawfield, Ky.	Clay	3	.....	133.50
Total tonnage				.....	28,221.80

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Rossland Coal Mining Co.		Grays, Ky.	Knox	4	5,610.00
Gordon Miller C. & Coke Co.		Grays, Ky.	Knox	4	17,224.00
Richland Creek Coal Co.		Barbourville, Ky.	Knox	4	5,170.70
Trace Branch Coal Co.		Barbourville, Ky.	Knox	4	1,799.00
K. D. Blue Gem Coal Co.	K. D.	Barbourville, Ky.	Knox	4	5,468.43
Sun Coal Co.		Flat Lick, Ky.	Knox	4	1,644.00
Total tonnage					573,599.83
Hear Jay Blue Gem Coal Co.		Barbourville, Ky.	Knox	4	.....
Highland Blue Gem Coal Co.		Barbourville, Ky.	Knox	4	.....
Jenkins-Price Coal Co.		Artemus, Ky.	Knox	4	.....
Turner Jellico Coal Co.		Emmanuel, Ky.	Knox	4	.....
Huron Coal Co.		Barbourville, Ky.	Knox	4	.....
Joe Wright Co.		Gray, Ky.	Knox	4	.....
W. L. Blue Gem Coal Co.		Artemus, Ky.	Knox	4	.....
Steep Ridge Coal Co.		Gray, Ky.	Knox	4	.....
Steel & Adler		Girdler, Ky.	Knox	4	.....
Richfield Coal Co.		Wheeler, Ky.	Knox	4	.....
J. W. Parker		Gray, Ky.	Knox	4	.....
New Tazewell Coal Co.		Lay, Ky.	Knox	4	.....
Lee Mullins		Barbourville, Ky.	Knox	4	.....
M. T. Lindsey Coal & Supply Co.		Artemus, Ky.	Knox	4	.....
Mason Coal Co.		Emmanuel, Ky.	Knox	4	.....
Pine Mountain Blue Gem Co.		Jellico, Tenn.	Knox	4	.....
Pickering Branch Coal Co.		Wilton, Ky.	Knox	4	.....
Dry Branch Coal Co.		Gray, Ky.	Knox	4	.....
Hughes Horse Creek Coal Co.		Barbourville, Ky.	Knox	4	.....
Charleston Jellico Coal Co.		Gray, Ky.	Knox	4	.....
Patterson Creek Coal Co.	Patterson	Pollyton, Ky.	Whitley	4	4,629.35
Bon Jellico Coal Co.	Bon	Bon Jellico, Ky.	Whitley	4	42,605.00
Busk Hollow Coal Co.		Jellico, Tenn.	Whitley	4	31,017.09
Drake Blue Gem Coal Co.	No. 1-2	Nevisdale, Ky.	Whitley	4	19,886.00
Mahan Jellico Coal Co.	Mahan	Packard, Ky.	Whitley	4	101,404.00
Proctor Coal Co.	Proctor	Rodash, Ky.	Whitley	4	17,148.00
Wallan Jellico Coal Co.	Wallan	Gatlisf, Ky.	Whitley	4	6,169.77
Jellico Coal Mining Co.	Mount Ash	Mount Ash, Ky.	Whitley	4	31,117.15
Main Jellico Coal Co.	Koscow	Tullico, Tenn.	Whitley	4	20,419.37

Mines Not Co-operating.

Garnet Jellico Coal Co.	Williamsburg, Ky.	Whitley	4.	217,187.03
Steins Blue Gem Coal Co.	Redash, Ky.	Whitley	4.	9,212.00
Saxton Coal Co.	Saxton, Ky.	Whitley	4.	4,305.00
C. C. Vernillion Co.	Jellico, Tenn.	Whitley	4.	9,759.89
Estes Jellico Coal Co.	Pleasant View, Ky.	Whitley	4.	13,238.00
Drake Blue Gem Co.	Packard, Ky.	Whitley	4.	17,603.00
Polly Coal Co.	Packard, Ky.	Whitley	4.	5,732.00
Mammoth Blue Gem Coal Co.	Gatliiff, Ky.	Whitley	4.	15,661.00
Total tonnage				575,834.64
New Watts Jellico Coal Co.	Woffard, Ky.	Whitley	4.	
Perkins Harlan Coal Co.	Williamsburg, Ky.	Whitley	4.	
Gatliiff Coal Co.	Gatliiff, Kv.	Whitley	4.	
Burns No. 5	Williamsburg, Ky.	Whitley	4.	
Garfield Jellico Coal Co.	Gatliiff, Kv.	Whitley	4.	
Evans Jellico Coal Co.	Jellico, Tenn.	Whitley	4.	
Appalachian Jellico Coal Co.	Corbin, Kv.	Whitley	4.	
Bennetts Fork Coal Mining Co.	Boswarth, Ky.	Bell	5.	48,918.00
Bailey Coal Co.	Blanche, Kv.	Bell	5.	5,276.55
J. B. Straight Creek Mining Co.	Four Mile, Ky.	Bell	5.	25,211.00
J. B. Blue Gem Coal Co.	Hosman, Ky.	Bell	5.	37,222.00
Fern Lake Fuel Co.	Middlesboro, Kv.	Bell	5.	13,167.00
Home Run Coal Co.	Middlesboro, Kv.	Bell	5.	18,888.00
New Straight Creek Mining Co.	Pineville, Kv.	Bell	5.	6,529.40
Utility Gas Coal Co.	Pineville, Kv.	Bell	5.	16,714.75
Vinson Harlan Coal Co.	Pineville, Kv.	Bell	5.	2,473.22
Pioneer Coal Co.	Kettle Island, Ky.	Bell	5.	92,195.67
Pine Ridge Coal Mining Co.	Tinsley, Kv.	Bell	5.	21,681.00
Pruden Coal & Coke Co.	Pruden, Kv.	Bell	5.	70,856.00
Harlan Liberty Coal Co.	Fvarts, Kv.	Bell	5.	21,944.32
Ky.-Cardinal Coal Co.	Cardinal, Kv.	Bell	5.	31,217.85
Yellow Creek Coal Co.	Foswarth, Ky.	Bell	5.	125,163.00
Chenoea Hignite Coal Co.	Chenoea, Kv.	Bell	5.	40,157.00
Congress Coal Mining Co.	Shamrock, Ky.	Bell	5.	43,048.25
Coleman Mining Co.	Cary, Kv.	Bell	5.	23,424.60
Crave Creek Coal Co.	Colmar, Ky.	Bell	5.	35,374.00
Climax Coal Co.	Shamrock, Ky.	Bell	5.	57,708.75
Cain Coal Co.	Cary, Ky.	Bell	5.	15,936.00

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Rossland Coal Mining Co.		Grays, Ky.	Knox	4	5,610.00
Gordon Miller C. & Coke Co.		Grays, Ky.	Knox	4	17,224.00
Richland Creek Coal Co.		Barbourville, Ky.	Knox	4	5,170.70
Trace Branch Coal Co.		Barbourville, Ky.	Knox	4	1,799.00
K. D. Blue Gem Coal Co.	K. D.	Barbourville, Ky.	Knox	4	5,468.43
Sun Coal Co.		Flat Lick, Ky.	Knox	4	1,644.00
Total tonnage					573,599.83
Hear Jay Blue Gem Coal Co.		Barbourville, Ky.	Knox	4	.....
Highland Blue Gem Coal Co.		Barbourville, Ky.	Knox	4	.....
Jenkins-Price Coal Co.		Artemus, Ky.	Knox	4	.....
Turner Jellico Coal Co.		Emmanuel, Ky.	Knox	4	.....
Huron Coal Co.		Barbourville, Ky.	Knox	4	.....
Joe Wright Co.		Gray, Ky.	Knox	4	.....
W. L. Blue Gem Coal Co.		Artemus, Ky.	Knox	4	.....
Steep Ridge Coal Co.		Gray, Ky.	Knox	4	.....
Steel & Adler		Girdler, Ky.	Knox	4	.....
Richfield Coal Co.		Wheeler, Ky.	Knox	4	.....
J. W. Parker		Gray, Ky.	Knox	4	.....
New Tazwell Coal Co.		Lay, Ky.	Knox	4	.....
Lee Mullins		Barbourville, Ky.	Knox	4	.....
M. T. Lindsey Coal & Supply Co.		Artemus, Ky.	Knox	4	.....
Mason Coal Co.		Emmanuel, Ky.	Knox	4	.....
Pine Mountain Blue Gem Co.		Jellico, Tenn.	Knox	4	.....
Pickering Branch Coal Co.		Wilton, Ky.	Knox	4	.....
Dry Branch Coal Co.		Gray, Ky.	Knox	4	.....
Hughes Horse Creek Coal Co.		Barbourville, Ky.	Knox	4	.....
Charleston Jellico Coal Co.		Gray, Ky.	Knox	4	.....
Patterson Creek Coal Co.	Patterson	Pollyton, Ky.	Whitley	4	4,629.35
Bon Jellico Coal Co.	Bon	Bon Jellico, Ky.	Whitley	4	42,605.00
Busk Hollow Coal Co.		Jellico, Tenn.	Whitley	4	31,017.09
Drake Blue Gem Coal Co.	No. 1-2	Nevisdale, Ky.	Whitley	4	19,886.00
Mahan Jellico Coal Co.	Mahan	Packard, Ky.	Whitley	4	101,404.00
Proctor Coal Co.	Proctor	Redash, Ky.	Whitley	4	17,148.00
Wallan Jellico Coal Co.	Wallan	Gatlin, Ky.	Whitley	4	6,169.77
Jellico Coal Mining Co.	Mount Ash	Mount Ash, Ky.	Whitley	4	31,117.15
Main Jellico Coal Co.	Kennan	Jellico, Tenn.	Whitley	4	20,419.37

Mines Not Co-operating.

Garnet Jellico Coal Co.	Williamsburg, Ky.	Whitley	4	217,187.03
Steins Blue Gem Coal Co.	Redash, Ky.	Whitley	4	9,212.00
Saxton Coal Co.	Saxton, Ky.	Whitley	4	4,305.00
C. C. Vernillion Co.	Jellico, Tenn.	Whitley	4	9,759.69
Eates Jellico Coal Co.	Pleasant View, Ky.	Whitley	4	13,238.00
Drake Blue Gem Co.	Packard, Ky.	Whitley	4	17,603.00
Polly Coal Co.	Packard, Ky.	Whitley	4	5,732.00
Mammoth Blue Gem Coal Co.	Gatliiff, Ky.	Whitley	4	15,661.00
Total tonnage				575,834.64
New Watts Jellico Coal Co.	Woffard, Ky.	Whitley	4	
Perkins Harlan Coal Co.	Williamsburg, Ky.	Whitley	4	
Gatliiff Coal Co.	Gatliiff, Kv.	Whitley	4	
Burns No. 5	Williamsburg, Ky.	Whitley	4	
Garfield Jellico Coal Co.	Gatliiff, Kv.	Whitley	4	
Archer No. 4	Jellico, Tenn.	Whitley	4	
Evans Jellico Coal Co.	Corbin, Kv.	Whitley	4	
Appalachian Jellico Coal Co.	Roswarth, Ky.	Bell	5	48,918.00
Bennetts Fork Coal Mining Co.	Blanche, Kv.	Bell	5	5,276.55
Bailey Coal Co.	Four Mile, Ky.	Bell	5	25,211.00
J. B. Straight Creek Mining Co.	Hosman, Ky.	Bell	5	37,222.00
J. B. Blue Gem Coal Co.	Middlesboro, Kv.	Bell	5	13,167.00
Fern Lake Fuel Co.	Middlesboro, Kv.	Bell	5	18,888.00
Home Run Coal Co.	Pineville, Kv.	Bell	5	6,529.40
New Straight Creek Mining Co.	Pineville, Kv.	Bell	5	16,714.75
Utility Gas Coal Co.	Pineville, Kv.	Bell	5	2,473.22
Vinson Harlan Coal Co.	Pineville, Kv.	Bell	5	92,195.67
Pioneer Coal Co.	Kettle Island, Ky.	Bell	5	21,681.00
Pine Ridge Coal Mining Co.	Tinsley, Kv.	Bell	5	70,856.00
Pruden Coal & Coke Co.	Pruden, Kv.	Bell	5	21,944.32
Harlan Liberty Coal Co.	Fvarts, Kv.	Bell	5	31,217.85
Ky.-Cardinal Coal Co.	Cardinal, Kv.	Bell	5	195,163.00
Yellow Creek Coal Co.	Roswarth, Ky.	Bell	5	40,157.00
Chenoea Hignite Coal Co.	Chenoea, Kv.	Bell	5	43,048.25
Congress Coal Mining Co.	Shamrock, Ky.	Bell	5	23,424.60
Coleman Mining Co.	Cary, Kv.	Bell	5	35,374.00
Fox Ridge	Cary, Kv.	Bell	5	57,708.75
Crave Creek Coal Co.	Colmar, Ky.	Bell	5	
Climax Coal Co.	Shamrock, Ky.	Bell	5	
Cain Coal Co.	Keency	Bell	5	

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Rosland Coal Mining Co.		Grays, Ky.	Knox	4	5,610.00
Gordon Miller C. & Coke Co.		Grays, Ky.	Knox	4	17,224.00
Richland Creek Coal Co.		Barbourville, Ky.	Knox	4	5,170.70
Trace Branch Coal Co.		Barbourville, Ky.	Knox	4	1,798.00
K. D. Blue Gem Coal Co.	K. D.	Barbourville, Ky.	Knox	4	5,468.43
Sun Coal Co.		Flat Lick, Ky.	Knox	4	1,644.00
Total tonnage					573,599.83
Hear Jay Blue Gem Coal Co.		Barbourville, Ky.	Knox	4	...
Highland Blue Gem Coal Co.		Barbourville, Ky.	Knox	4	...
Jenkins-Price Coal Co.		Artemus, Ky.	Knox	4	...
Turner Jellico Coal Co.		Emmanuel, Ky.	Knox	4	...
Huron Coal Co.		Barbourville, Ky.	Knox	4	...
Joe Wright Co.		Gray, Ky.	Knox	4	...
W. L. Blue Gem Coal Co.		Artemus, Ky.	Knox	4	...
Steep Ridge Coal Co.		Gray, Ky.	Knox	4	...
Steel & Adler		Girdler, Ky.	Knox	4	...
Richfield Coal Co.		Wheeler, Ky.	Knox	4	...
J. W. Parker		Gray, Ky.	Knox	4	...
New Tazwell Coal Co.		Lay, Ky.	Knox	4	...
Lee Mullins		Barbourville, Ky.	Knox	4	...
M. T. Lindsey Coal & Supply Co.		Artemus, Ky.	Knox	4	...
Mason Coal Co.		Emanuel, Ky.	Knox	4	...
Pine Mountain Blue Gem Co.		Jellico, Tenn.	Knox	4	...
Pickering Branch Coal Co.		Wilton, Ky.	Knox	4	...
Dry Branch Coal Co.		Gray, Ky.	Knox	4	...
Hughes Horse Creek Coal Co.		Barbourville, Ky.	Knox	4	...
Charleston Jellico Coal Co.		Gray, Ky.	Knox	4	...
Patterson Creek Coal Co.	Patterson	Pollyton, Ky.	Whitley	4	4,629.35
Bon Jellico Coal Co.	Bon	Bon Jellico, Ky.	Whitley	4	42,605.00
Busk Hollow Coal Co.		Jellico, Tenn.	Whitley	4	31,017.09
Drake Blue Gem Coal Co.	No. 1-2	Nevadale, Ky.	Whitley	4	19,886.00
Mahan Jellico Coal Co.	Mahan	Packard, Ky.	Whitley	4	101,404.00
Proctor Coal Co.	Proctor	Redash, Ky.	Whitley	4	17,148.00
Wallan Jellico Coal Co.	Wallan	Gatiff, Ky.	Whitley	4	6,163.77
Jellico Coal Mining Co.	Mount Ash	Mount Ash, Ky.	Whitley	4	31,117.15
Main Jellico Coal Co.	Kenasee	Jellico, Tenn.	Whitley	4	20,419.37

Mines Not Co-operating.

Garnet Jellico Coal Co.	Williamsburg, Ky.	Whitley	4	217,187.03
Steins Blue Gem Coal Co.	Redash, Ky.	Whitley	4	9,212.00
Saxton Coal Co.	Saxton, Ky.	Whitley	4	4,305.00
C. C. Vernillion Co.	Jellico, Tenn.	Whitley	4	9,759.69
Estes Jellico Coal Co.	Pleasant View, Ky.	Whitley	4	13,288.00
Drake Blue Gem Co.	Packard, Ky.	Whitley	4	17,603.00
Polly Coal Co.	Packard, Ky.	Whitley	4	5,732.00
Mammoth Blue Gem Coal Co.	Gatloff, Ky.	Whitley	4	15,661.00
Total tonnage				575,834.64
New Watts Jellico Coal Co.	Wofford, Ky.	Whitley	4	
Perkins Harlan Coal Co.	Williamsburg, Ky.	Whitley	4	
Gatloff Coal Co.	Gatloff, Ky.	Whitley	4	
Garfield Jellico Coal Co.	Williamsburg, Ky.	Whitley	4	
Gatloff Coal Co.	Gatloff, Ky.	Whitley	4	
Evans Jellico Coal Co.	Jellico, Tenn.	Whitley	4	
Appalachian Jellico Coal Co.	Corbin, Ky.	Whitley	4	
Bennetts Fork Coal Mining Co.	Boswarth, Ky.	Bell	5	48,918.00
Bailey Coal Co.	Blanche, Ky.	Bell	5	5,276.55
J. B. Straight Creek Mining Co.	Four Mile, Ky.	Bell	5	25,211.00
J. B. Blue Gem Coal Co.	Hosman, Ky.	Bell	5	37,232.00
Fern Lake Fuel Co.	Middlesboro, Ky.	Bell	5	13,167.00
Home Run Coal Co.	Middlesboro, Ky.	Bell	5	18,888.00
New Straight Creek Mining Co.	Pineville, Ky.	Bell	5	6,529.40
Utility Gas Coal Co.	Pineville, Ky.	Bell	5	16,714.75
Vinson Harlan Coal Co.	Pineville, Ky.	Bell	5	2,473.22
Pioneer Coal Co.	Pioneer No. 1	Bell	5	92,195.67
Pine Ridge Coal Mining Co.	Italy	Bell	5	21,681.00
Pruden Coal & Coke Co.	Pruden, Ky.	Bell	5	70,856.00
Harlan Liberty Coal Co.	Evarts, Ky.	Bell	5	21,944.32
Ky.-Cardinal Coal Co.	Cardinal, Ky.	Bell	5	31,217.85
Yellow Creek Coal Co.	No. 1	Bell	5	125,163.00
Chenosa Hignite Coal Co.	No. 4	Bell	5	40,157.00
Congress Coal Mining Co.	Boswarth, Ky.	Bell	5	43,048.25
Coleman Mining Co.	Chenosa, Ky.	Bell	5	23,424.60
Grave Creek Coal Co.	Shamrock, Ky.	Bell	5	35,374.00
Climax Coal Co.	Cary, Ky.	Bell	5	57,708.75
Cain Coal Co.	Grave Creek	Bell	5	
	Keency	Bell	5	16,936.00

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Cambridge Coal Co.		Pineville, Ky.	Bell	5	.....
Wilson-Beyer Coal Corp.		Grays Knob, Ky.	Harlan	5	121,096.31
Golden Ash Coal Co.		Hites, Ky.	Harlan	5	58,214.85
Lenarue Coal Co.		Lenarue, Ky.	Harlan	5	34,009.41
Platts Fork Mining Co.		Wallins Creek, Ky.	Harlan	5	8,374.00
Wallins Creek Collieries Co.		Harlan, Ky.	Harlan	5	13,752.00
Wallins Creek Collieries Co.		Wallins Creek, Ky.	Harlan	5	99,300.00
Virginia Coal & Coke Co.		Leona Mines, Va.	Harlan	5	32,966.05
Middleton Coal Co.		Evarts, Ky.	Harlan	5	16,728.00
Loonery Creek Coal Co.		Peevec, Ky.	Harlan	5	29,431.00
J. L. Smith Coal Co.		Kildav, Ky.	Harlan	5	42,745.00
Darby Harlan Coal Co.		Evarts, Ky.	Harlan	5	6,626.00
Burly Coal Co.		Wallins Creek, Ky.	Harlan	5	336.10
Milcroft Coal Co.	Kayu	Coxton, Ky.	Harlan	5	49,200.30
Milcroft Coal Co.	Coxton	Coxton, Ky.	Harlan	5	82,661.34
Ky. King Coal Co.	Ky. King	Wallins Creek, Ky.	Harlan	5	58,156.00
U. S. Coal & Coke Co.	Lynch	Lynch Mines, Ky.	Harlan	5	1,336,070.00
Cook & Sharp Coal Co.		Le Junior, Ky.	Harlan	5	27,540.00
Paris Coal Co.		Harlan, Ky.	Harlan	5	7,851.00
China Coal Co.		Wallins Creek, Ky.	Harlan	5	525.00
Riverside Coal Mining Co.		White Star, Ky.	Harlan	5	19,565.18
Harlan Collieries Co.	Brookside	Agea, Ky.	Harlan	5	57,338.08
Cloverfork Coal Co.	Cloverfork	Kitts, Ky.	Harlan	5	90,271.04
Wm. D. Boyer Trustee & Co.	Boyer Branch	Verda, Ky.	Harlan	5	75,721.00
White Star Coal Co.	White Star	White Star, Ky.	Harlan	5	163,728.00
J. B. Blue Gem Coal Co.		Black Joe, Ky.	Harlan	5	39,583.00
Mary-Helen Coal Corp.		Coolgood, Ky.	Harlan	5	89,124.40
Black Mountain Corp.		Dixney, Ky.	Harlan	5	255,569.00
Vinson Kolb Coal Co.	Hoyt	Cargo, Ky.	Harlan	5	17,760.00
Moltus Coal Co.		Moltus, Ky.	Harlan	5	37,860.00
Wisconsin Steel Coal Co.	No. 1	Benham, Ky.	Harlan	5	389,366.00
Wisconsin Steel Coal Co.	No. 2	Benham, Ky.	Harlan	5	244,316.00
Sugar Camp Mining Co.	Sugar Camp	Evarts, Ky.	Harlan	5	16,400.00
High Splint Coal Co.		Hightsplint, Ky.	Harlan	5	77,120.00
East Harlan Coal Co.	East Harlan	Agea, Ky.	Harlan	5	40,922.18
Kitts Creek Coal Co.		Harlan, Ky.	Harlan	5	21,205.00
Harlan Gas Coal Co.	Gaston	Harlan, Ky.	Harlan	5	77,784.00
					41,662.00

Model Coal Co.	Model	Le Junior, Ky.	Harlan	5.	43,200.00
R. C. Tway Coal Co.	Bland	Harlan, Ky.	Harlan	5.	101,635.00
Wayne Coal Co.		Kildav, Ky.	Harlan	5.	69,974.00
Rex Coal Co.	Rex	Kitts, Ky.	Harlan	5.	24,954.00
Can-Bit Coal Co.	Can Bit	Wallins Creek, Ky.	Harlan	5.	9,319.00
Williams By-Product Coal Co.		Chevrolet, Ky.	Harlan	5.	30,156.00
R. L. Brown Coal & Coke Co.		Evarts, Ky.	Harlan	5.	18,449.53
Harlan Cumberland Coal Mining Co.		Dione, Ky.	Harlan	5.	1,172.05
Superior Harlan Coal Co.	Superior	Evarts, Ky.	Harlan	5.	26,050.46
Hawley Coal Co.	Hawley	Shamrock, Ky.	Harlan	5.	33,309.10
A. N. Nelson Coal Co.		Molus, Ky.	Harlan	5.	4,950.00
Creech Coal Co.		Twila, Ky.	Harlan	5.	181,728.15
Bird Coal Co.		Wallins Creek, Ky.	Harlan	5.	504.00
Wheeler Boone Coal Co.		Wallins, Ky.	Harlan	5.	10,997.00
Ky. Harlan Coal Co.	Trospen	Harlan, Ky.	Harlan	5.	39,585.00
Block Coal Co.		Evarts, Ky.	Harlan	5.	2,425.25
McCombs Coal Co.		Elcomb, Ky.	Harlan	5.	65,677.00
Miller & Sharp Coal Co.		Le Junior, Ky.	Harlan	5.	21,131.00
Harlan Gem Coal Co.	Harlan	Ages, Ky.	Harlan	5.	12,774.00
Kellioka Coal Co.		Nolansburg, Ky.	Harlan	5.	9,623.00
Harlan Kellioka Coal Co.		Evarts, Ky.	Harlan	5.	16,855.35
Swanee Gas Coal Co.		Harlan, Ky.	Harlan	5.	32,230.82
Bowling Mining Co.		Le Junior, Ky.	Harlan	5.	47,103.45
Total				tonnage	4,597,433.00
Crown By-Product Coal Co.		Chevrolet, Ky.	Harlan	5.	
McDowell Coal Co.		Wallins Creek, Ky.	Harlan	5.	
Harlan Co-operative Co.		Evarts, Ky.	Harlan	5.	
Harlan Fuel Co.		Yancy, Ky.	Harlan	5.	
Badger Coal Co.		Ages, Ky.	Harlan	5.	
Banner Fork Coal Co.		Wallins Creek, Ky.	Harlan	5.	
Harlan & Braxton Coal Co.		Braxton, Ky.	Harlan	5.	
Wallins Mining Co.		Harlan, Ky.	Harlan	5.	
Bugger Harlan Coal Co.		Harlan, Ky.	Harlan	5.	
Perkins Harlan Coal Co.		Harlan, Ky.	Harlan	5.	
E. R. Clayton Coal Co.		Harlan, Ky.	Harlan	5.	
Industrial Fuel Co.		Harlan, Ky.	Harlan	5.	
Merchant Coal Co.		Wallins Creek, Ky.	Harlan	5.	
Newor Coal Co.		Wallins Creek, Ky.	Harlan	5.	

condition. I visited this mine on July 24th, 1920, found the mine in bad condition as to ventilation and second outlet. Stoppings all in bad repair and the opening to the second outlet was almost, impossible to get through. The ladder for escape was decayed and in bad condition. I instructed the mine foreman to go over his line of stoppings and repair and build new ones where necessary and to clean out and drain the outlet to second opening and put it in a sanitary condition and construct a ladder in the escape way of good substantial material. After the miners received my report they held a meeting and served notice on Mr. McHargue that they would give him ten days to commence repairing to comply with the recommendations I made. He failed to commence work to make the necessary repairs in the ten days, and when I was transferred from the second to the first mine district, the men at this mine were out on strike to force the Company to comply with my recommendations.

PACIFIC COAL CO., Mercer, Ky.

C. D. Glass, G. M.; Jas. Bailey, Mine Foreman.

This mine is located at Mercer, Ky., on the I. C. Railroad, a shaft mine, working No. 9 Seam, slate roof fairly good, is hauled by mules and electric motor, shot off solid. I visited this mine on July 27th, found it to be in fairly good condition. Company willing to co-operate with the Department of Mines.

THE PITTSBURG COAL CO., Baskett, Ky.

J. B. Blair, Jr., G. M.; E. H. Hart, Supt.; Woodford Smith, Mine Foreman.

This mine is located in Henderson County at Baskett Station, on the L. H. & St. L. Railroad, is a shaft mine, working No. 9 Seam, has slate roof fairly good, mined by electric machine, hauled by mules and electric motors. This mine was visited and inspected by Assistant Inspector U. D. Williams, of the Third District and myself on the 16th of July, 1920, and found to be in very unsatisfactory and insanitary condition. Poor ventilating system and poor drainage. We recommended to mend stoppings, build new ones and hang doors

South East Coal Co.	No. 1	Seco, Ky.	Letcher	6	77,855.00
Consolidated Fuel Co.	No. 2	Dalna, Ky.	Letcher	6	7,792.00
Consolidated Fuel Co.	Jessie	Dalna, Ky.	Letcher	6	27,319.07
Consolidated Fuel Co.	Sarah	Dalna, Ky.	Letcher	6	22,538.00
Amburgy Coal Co.	Amburgy	Dalna, Ky.	Letcher	6	35,001.00
The Cowan Creek Coal Co.		Ice, Ky.	Letcher	6	7,130.00
Logan Elkhorn Coal Corporation		Fleming, Ky.	Letcher	6	53,133.00
Blackwood Coal & Coke Co.		Pardee, Ky.	Letcher	6	136,392.00
Marian Coal Co.	Marian	Blackey, Ky.	Letcher	6	89,061.60
Blackey Coal Corporation	Blackey	Blackey, Ky.	Letcher	6	12,600.73
May King Coal Co.	May King	May King, Ky.	Letcher	6	23,715.64
Ulvah Coal Co.	Ulvah	Ulvah, Ky.	Letcher	6	14,383.00
Solner Mining Co.		Whitesburg, Ky.	Letcher	6	9,804.00
Whitesburg Coal Co.		Whitico, Ky.	Letcher	6	34,833.95
Whitley Elkhorn Coal Co.		Sargent, Ky.	Letcher	6	30,630.10
Dudley Coal Co.		David, Ky.	Letcher	6	52,097.00
Caudill Coal Co.	Caudill	Whitesburg, Ky.	Letcher	6	30,494.85
Huntington By-Product Coal Co.		Burdine, Ky.	Letcher	6	16,644.00
Acme By-Product Coal Co.		Fleming, Ky.	Letcher	6	30,558.00
Rockhouse Coal Co.		Blackey, Ky.	Letcher	6	30,433.00
Total tonnage					3,315,644.95
Cumberland & Hazard Mining Co.		Lice, Ky.	Letcher	6	...
Receiver for W. Va. & Ky. Coal Co.		Dalna, Ky.	Letcher	6	...
Almson Coal Co.		Burdine, Ky.	Letcher	6	...
Whitson Coal Co.		Indian Bottom, Ky.	Letcher	6	...
Columbus Mining Co.	No. 3	Hazard, Ky.	Perry	6	54,504.00
Columbus Mining Co.	No. 4	Hazard, Ky.	Perry	6	69,988.00
Columbus Mining Co.	No. 5	Hazard, Ky.	Perry	6	95,551.00
Midland Mining Co.		Tribbey, Ky.	Perry	6	83,296.41
Liberty Coal Co.	Liberty	Bonnyman, Ky.	Perry	6	94,713.00
South Eastern Ky. Coal Co.		Krypton, Ky.	Perry	6	8,903.40
Maynard Coal Co.	No. 6-7	Lennutt, Ky.	Perry	6	94,912.00
York Coal Corp.		Krypton, Ky.	Perry	6	13,143.00
Ledford Coal Co.		Krypton, Ky.	Perry	6	7,605.00
Diamond Block Coal Co.		Biablock, Ky.	Perry	6	111,770.27
Harlan Superior Coal Co.		Chevrolet, Ky.	Perry	6	4,692.00
Hardy-Burlingham Mining Co.		Hardburly, Ky.	Perry	6	235,873.00

as to ventilation, poor. This mine has a black slate roof, very fair. On September 11th, I inspected this mine the second time, at the same time made an investigation in the accident where a fall of rock instantly killed two men, and four were fatally wounded. I found conditions as to ventilation greatly improved to what they were at my first inspection of this mine on August 10th.

WEST JELLICO COAL CO., Nortonville, Ky.

Brent Hart, Supt.; W. J. Franklin, Mine Foreman.

This mine is located on the I. C. Railroad about three miles South of Nortonville, is a drift Mine working No. 14 Seam, working Numbers 1, 2, & 3 opening No. 1 opening is all worked out with the exception of some recovery work, main part of the work is No. 2 opening as No. 3 is just being developed. Coal is shot off the solid, hauled by mule. I visited this mine on August 12th, found conditions poor, ventilation weak.

On Sept. 17th I was called back to the West Jellico Coal Mine by both men and Company to make another inspection of said mine. and upon reaching the mine, I found after talking with the mine committee, General Manager of the Company and Mine Foreman, that the conditions were not improved any to what they were at my previous inspection. After a careful consultation over these matters we decided it would be best to remove the fan from No. 1 opening where it was serving as an exhaust fan for both No. 1 and No. 2 and move it to No. 2 and make a force fan. This being done it improved the condition of ventilation in the mine and I found the company willing to co-operate and do anything to improve the efficiency.

WEST KENTUCKY COAL CO., Mine No. 6, Wheatcroft, Ky.

Thos. Christian, Gen. Supt.; W. W. Kirk, Dist. Supt.; Walter Edwards, Mine Foreman.

This mine is located on the I. C. Railroad in Webster County, is a shaft mine working No. 9 coal, is mined by electric machine, hauled by electric motors and mules. I visited this mine on August 17th and found it to be in a very fair condition at the time of inspection they were just reopening the

Baker Coal Co.	Viper, Ky.	6	.....	.....
Defiance Coal Mining Co.	Hazard, Ky.	6	.....	.....
Darb Fork Coal Co.	Hazard, Ky.	6	.....	.....
Clinton Coal Co.	Jeff, Ky.	6	.....	.....
C. H. McDonald Coal Co.	Glenn, Ky.	6	.....	.....
Indian Head Coal Co.	Bulan, Ky.	6	.....	.....
Blue Jay Coal Co.	Hazard, Ky.	6	.....	.....
Yerkes Coal Co.	Yerkes, Ky.	6	.....	.....
Blue Jacket Coal Co.	Glomawr, Ky.	6	.....	.....
Mumey Coal & Mining Co.	Krypton, Ky.	6	.....	.....
Himler Coal Co.	Warfield, Ky.	7	.....	14,685.00
Earlston Coal Co.	Kermitt, W. Va.	7	.....	8,521.00
Flow Mining Co.	Kermitt, W. Va.	7	.....	7,089.25
Total tonnage				30,295.25
Warfield Coal Co.	Kermitt, W. Va.	7	.....	.....
Cab Mountain Coal & Coke Co.	Cincinnati, Ohio	7	.....	.....
Dempsey Coal Co.	Grey Eagle, W. Va.	7	.....	.....
Kaoff Coal Corp.	Sassafras, Ky.	7	.....	.....
Torchlight Coal Co.	Torchlight, Ky.	7	.....	8,042.10
McStaff Coal Co.	Torchlight, Ky.	7	.....	3,379.00
Dry Fork Coal Co.	Belltrace, Ky.	7	.....	5,994.00
Sureburn Coal Co.	Peach Orchard, Ky.	7	.....	8,797.50
Crystal Block Collieries Co.	Richardson, Ky.	7	.....	9,038.87
Total tonnage				35,251.47
Consolidation Coal Co.	Van Lear, Ky.	7	.....	44,474.00
Consolidation Coal Co.	Van Lear, Ky.	7	.....	64,208.00
Consolidation Coal Co.	Van Lear, Ky.	7	.....	48,276.00
Consolidation Coal Co.	Van Lear, Ky.	7	.....	96,447.00
Consolidation Coal Co.	Van Lear, Ky.	7	.....	72,721.00
North East Coal Co.	Paintsville, Ky.	7	.....	99,234.00
North East Coal Co.	Paintsville, Ky.	7	.....	12,219.00
North East Coal Co.	Paintsville, Ky.	7	.....	110,330.00
North East Coal Co.	Paintsville, Ky.	7	.....	87,657.00
North East Coal Co.	Paintsville, Ky.	7	.....	28,844.00
Green Rock Coal Co.	Riceville, Ky.	7	.....	9,649.00
Royal Collieries Co.	Offutt, Ky.	7	.....	61,657.00

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Agers-Lang Coal Co.	.....	Williamsport, Ky.	Johnson	7	18,075.00
H. I. Grade Block Coal Co.	.....	Denver, Ky.	Johnson	7	7,604.02
Denier Coal Co.	.....	Denver, Ky.	Johnson	7	10,889.18
Total tonnage					772,286.20
Lime Branch Coal Co.	.....	Denver, Ky.	Johnson	7	.....
Greasy Creek Coal Co.	.....	Paintsville, Ky.	Johnson	7	.....
Wells Elkhorn Coal Co.	.....	Lackey, Ky.	Floyd	7	27,284.00
Wells Elkhorn Coal Co.	Black Diamond No. 2-3	Estill, Ky.	Floyd	7	50,711.00
Wells Elkhorn Coal Co.	No. 4	Lackey, Ky.	Floyd	7	49,529.00
Elkhorn Star Coal Co.	No. 5	Estill, Ky.	Floyd	7	2,560.00
Elkhorn Star Coal Co.	No. 1	Minnie, Ky.	Floyd	7	14,101.32
Elkhorn Star Coal Co.	No. 2	Minnie, Ky.	Floyd	7	15,109.25
Elkhorn Piney Coal & Mining Co.	No. 1-2	Weeksberry, Ky.	Floyd	7	183,350.21
Elkhorn Piney Coal & Mining Co.	Calch 3-4-5-7	Weeksberry, Ky.	Floyd	7	98,380.80
Elkhorn Coal Corporation	No. 325	Garrett, Ky.	Floyd	7	29,509.56
Elkhorn Coal Corporation	No. 326	Garrett, Ky.	Floyd	7	11,583.45
Elkhorn Coal Corporation	No. 327	Garrett, Ky.	Floyd	7	48,107.44
Elkhorn Coal Corporation	No. 329	Wayland, Ky.	Floyd	7	50,834.73
Elkhorn Coal Corporation	No. 328-31	Wayland, Ky.	Floyd	7	58,464.58
Elkhorn Coal Corporation	No. 330	Wayland, Ky.	Floyd	7	20,511.50
Elkhorn Coal Corporation	No. 351	Wayland, Ky.	Floyd	7	14,703.07
Blue Beaver Coal Co.	.....	Prestonsburg, Ky.	Floyd	7	36,045.00
Blue Beaver Elkhorn Fuel Co.	.....	Lygon, Ky.	Floyd	7	18,209.00
Purity Cannel Coal Co.	.....	Prestonsburg, Ky.	Floyd	7	21,407.25
Eureka Coal & Mining Co.	.....	Prestonsburg, Ky.	Floyd	7	.....
Elkhorn Block Coal Co.	.....	Orkney, Ky.	Floyd	7	21,584.00
Elkhorn Colleries Co.	Redhall	Bevinsville, Ky.	Floyd	7	16,385.00
Royal Elkhorn Coal Co.	.....	McDowell, Ky.	Floyd	7	30,443.00
Big Elkhorn Coal Co.	.....	Bevinsville, Ky.	Floyd	7	43,534.00
Goodin & Barney Coal Co.	.....	Bevinsville, Ky.	Floyd	7	17,309.00
Beaver Elkhorn Coal Co.	.....	Bevinsville, Ky.	Floyd	7	10,284.00
Middle Creek Coal Co.	.....	Prestonsburg, Ky.	Floyd	7	97,324.86
Lama Co.	.....	Prestonsburg, Ky.	Floyd	7	12,707.00

Standard Elkhorn Coal Co.	Garrett, Ky.	7	56,017.00
Harold Coal & Coke Co.	Harold, Ky.	7	36,247.62
Floyd Elkhorn Consolidated Collieries	Drift, Ky.	7	42,264.16
St. Paul Coal Co.	Betsy Layne, Ky.	7	17,412.00
Cumberland Coal & Coke Co.	Mevin, Ky.	7	7,773.00
Malone Elkhorn Coal Co.	Allen, Ky.	7	4,862.00
Lorain Elkhorn Coal Co.	Melvin, Ky.	7	9,066.00
Cliff Coal Co.	Cliff, Ky.	7	20,903.00
Ky. Beaver Collieries Co.	Banner, Ky.	7	16,944.00
Pike Floyd Coal Co.	Betsy Layne, Ky.	7	35,477.00
Prestonsburg Coal Co.	Prestonsburg, Ky.	7	43,975.00
North East Coal Co.	Auxier, Ky.	7	25,348.06
Collins Mining Co.	Lackey, Ky.	7	9,935.45
Anchor Coal Co.	Prestonsburg, Ky.	7	19,026.00
Dwale Coal Co.	Allen, Ky.	7	18,648.00
Long Branch Coal Co.	Drift, Ky.	7	20,729.00
Superior Elkhorn Coal Co.	Hueysville, Ky.	7	15,146.00
Northern Elkhorn Coal Co.	Prestonsburg, Ky.	7	59,850.00
Colonial Coal & Coke Co.	Prestonsburg, Ky.	7	30,392.00
Lower Elkhorn Coal Co.	Lackey, Ky.	7	22,856.00
Edgemont Fuel Co.	Minnie, Ky.	7	31,423.26
Walla Mining Co.	Lackey, Ky.	7	37,223.45
Laver Creek Coal Co.	Alphoretta, Ky.	7	9,898.70
Alson Coal Co.	Emma, Ky.	7	22,036.00
Key Mining Co.	Lackey, Ky.	7	13,758.00
Arthur Leslie Coal Co.	Emma, Ky.	7	8,727.00
Virginia Mining Co.	Allen, Ky.	7	15,157.25
Laver Creek Coal Co.	Emma, Ky.	7	1,660,033.95
Total tonnage			1,660,033.95
Arzilla By-Product Coal Co.	Alphoretta, Ky.	7	.....
Regal Block Coal Co.	Ivel, Ky.	7	.....
Samoset Fuel Corp.	Smalley, Ky.	7	.....
Williams Coal Co.	Prestonsburg, Ky.	7	.....
J. N. Meek Coal Co.	Drift, Ky.	7	.....
Printer Elkhorn Co.	Printer, Ky.	7	.....
Liberty Coal Corp.	McDowell, Ky.	7	.....
Glogora Coal Co.	Wayland, Ky.	7	.....
Trivette Coal Co.	Smalley, Ky.	7	.....

R. R. This mine is working No. 9 Seam, coal is shot off the solid, at present time the Company is preparing to install electric machines, coal is hauled by mules. I visited this mine on the first day of October, found it in a very fair condition, the officials of the Company have always been willing to co operate with the department. At the time of my inspection they only had one outlet, but since have sunk an air shaft.

DUNNING-GORDON MINING CO., St. Charles, Ky.

Ernest Dunning, Supt.; Geo. Cheek, Acting Foreman.

This mine is located in St. Charles, Ky., about a mile off the I. C. Railroad, and at present time is running as a wagon mine, but contemplates running a narrow gauge railroad track to haul the coal from the mine to the tip. This mine is working No. 9 Seam, a drift mine, coal is shot off the solid hauled by mules. I visited this mine on the 19th day of October, 1920, found it to be in fairly good condition.

BUCKRUN COAL CO., St. Charles, Ky.

W. J. Faul, Supt.; Wm. Graham, Acting Mine Foreman.

This mine is located at St. Charles, Ky., is a wagon mine working about 11 men, No. 9 Seam, a drift mine, coal is shot off the solid and hauled by mules. I visited this mine the 20th day of October, found it fairly good condition.

WOODRUFF COAL CO., St. Charles, Ky.

Jas. Woodruff, Supt. & Mine Foreman.

This mine is located on the I. C. Railroad about one mile and a half from St. Charles, is working No. 9 Seam, coal is shot off the solid, hauled by mules. I visited this mine on the 21st day of October, 1920, found it in fairly good condition.

MASON COAL CO., St. Charles, Ky.

R. S. Mason, Manager; Fred Fox, Mine Foreman.

This mine is located about two miles South of St. Charles on the I. C. Railroad, is working No. 9 Seam, coal is mined by air puncher machines and shot off solid and hauled by rope and mules. I visited this mine on the 22nd of October,

Big Hollow Coal Co.	Pikeville, Ky.	Pike	2,153.00
Triangle Coal Co.	Stone, Ky.	Pike	15,606.00
Victor Coal Co.	Stone, Ky.	Pike	25,976.00
Vulcan Collieries Co.	Stone, Ky.	Pike	59,843.00
Tug Valley Fuel Co.	Vulcan, W. Va.	Pike	64,367.00
Tierrry Mining Co.	Goody, Ky.	Pike	1,366.00
Thacker Coal Mining Co.	Stone, Ky.	Pike	226,231.00
A. J. Yonce Coal Co.	Rose Siding, W. Va.	Pike	34,345.80
Ky.-Elkhorn Coal Corporation	Pikeville, Ky.	Pike	3,960.00
Funk Coal Co.	Praise, Ky.	Pike	71,361.30
J. D. Smith Coal Co.	Sutton, Ky.	Pike	13,200.00
Greenough Coal Co.	Williamson, W. Va.	Pike	9,832.00
J. B. Elkhorn Coal Co.	Hellier, Ky.	Pike	94,252.00
Buckfield Coal Co.	Hildason, Ky.	Pike	52,742.00
Blake Coal Mining Co.	Yeager, Ky.	Pike	13,527.00
Alma Thacker Fuel Co.	Chattaroy, W. Va.	Pike	11,687.00
Alburn Coal Corporation	Stone, Ky.	Pike	32,893.55
Banner Pond Creek Coal Co.	McCarr, Ky.	Pike	102,737.00
Christie-Darby Mining Co.	McCarr, Ky.	Pike	52,705.00
Elkhorn & Shelby Creek Coal Co.	Orinoco, Ky.	Pike	14,855.00
Elkhorn Seam Collieries Co.	Mossy Bottom, Ky.	Pike	5,969.00
Ford Elkhorn Mining Co.	Eaco, Ky.	Pike	83,820.48
Baily Coal Co.	Yeager, Ky.	Pike	34,730.00
Marrowbone Mining Co.	Robinson Creek, Ky.	Pike	60,515.00
Paragon Elkhorn Collieries Co.	Toler, Ky.	Pike	124,258.79
Orinoco Mining Co.	Lookout, Ky.	Pike	34,084.00
P. M. C. Coal Co.	Dunleary, Ky.	Pike	51,538.81
Pond Creek By-Product Co.	Orinoco, Ky.	Pike	97,062.00
Praise Elkhorn Coal Co.	Spriggs, W. Va.	Pike	35,457.00
Ports Salvory Coal Co.	Williamson, W. Va.	Pike	13,301.00
Rogers Brothers Coal Co.	Dunleary, Ky.	Pike	17,458.00
R. H. Elkhorn Coal Co.	Edgerton, W. Va.	Pike	271,570.99
R. F. Bailey Coal Co.	Virgie, Ky.	Pike	60,021.00
Sharon Coal & Coke Co.	Shebiana, Ky.	Pike	1,700.00
Steel Coal Co.	Williamson, W. Va.	Pike	20,037.00
Sudduth Coal Co.	Sharondale, Ky.	Pike	51,832.00
Burnwell Coal & Coke Co.	Mossy Bottom, Ky.	Pike	48,155.00
Winston Elkhorn Coal Co.	Stone, Ky.	Pike	161,361.37
	Spriggs, W. Va.	Pike	33,163.00
	Regina, Ky.	Pike	26,980.00

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Cambridge Coal Co.		Pineville, Ky.	Bell	5	121,086.31
Wilson-Beyer Coal Corp.		Grays Knob, Ky.	Harlan	5	58,214.85
Golden Ash Coal Co.		Kitts, Ky.	Harlan	5	34,009.41
Lenarue Coal Co.		Lenarue, Ky.	Harlan	5	8,374.00
Platts Fork Mining Co.		Wallins Creek, Ky.	Harlan	5	13,752.00
Wallins Creek Collieries Co.		Harlan, Ky.	Harlan	5	99,300.00
Wallins Creek Collieries Co.		Wallins, Creek, Ky.	Harlan	5	32,966.05
Virginia Coal & Coke Co.		Leona Mines, Va.	Harlan	5	16,728.00
Middleton Coal Co.		Evarts, Ky.	Harlan	5	29,431.00
Loonery Creek Coal Co.		Peevee, Ky.	Harlan	5	42,745.00
J. L. Smith Coal Co.		Kildav, Ky.	Harlan	5	6,626.00
Darby Harlan Coal Co.		Evarts, Ky.	Harlan	5	336.10
Burly Coal Co.		Wallins Creek, Ky.	Harlan	5	49,200.30
Milcroft Coal Co.	Kayu	Coxton, Ky.	Harlan	5	82,661.84
Milcroft Coal Co.	Coxton	Coxton, Ky.	Harlan	5	58,156.00
Ky. King Coal Co.	Ky. King	Wallins Creek, Ky.	Harlan	5	1,336,070.00
U. S. Coal & Coke Co.	Lynch	Lynch Mines, Ky.	Harlan	5	27,540.00
Cook & Sharp Coal Co.		Le Junior, Ky.	Harlan	5	7,851.00
Paris Coal Co.		Harlan, Ky.	Harlan	5	525.00
China Coal Co.		Wallins Creek, Ky.	Harlan	5	19,566.18
Riverside Coal Mining Co.		White Star, Ky.	Harlan	5	57,338.08
Harlan Collieries Co.	Brookside	Ages, Ky.	Harlan	5	90,271.04
Cloverfork Coal Co.		Kitts, Ky.	Harlan	5	75,721.00
Wm. D. Boyer Trustee & Co.	Boyer Branch	Verda, Ky.	Harlan	5	163,728.00
White Star Coal Co.	White Star	White Star, Ky.	Harlan	5	39,583.00
J. B. Blue Gem Coal Co.		Black Joe, Ky.	Harlan	5	89,124.40
Mary-Helen Coal Corp.		Coolgood, Ky.	Harlan	5	256,569.00
Black Mountain Corp.		Dixney, Ky.	Harlan	5	17,760.00
Vinson Kolb Coal Co.	Hoyt	Cargo, Ky.	Harlan	5	37,860.00
Molus Coal Co.		Molus, Ky.	Harlan	5	389,366.00
Wisconsin Steel Coal Co.	No. 1	Benham, Ky.	Harlan	5	244,316.00
Wisconsin Steel Coal Co.	No. 2	Benham, Ky.	Harlan	5	16,400.00
Sugar Camp Mining Co.	Sugar Camp	Evarts, Ky.	Harlan	5	77,120.00
High Splint Coal Co.		Higheplint, Ky.	Harlan	5	40,922.18
East Harlan Coal Co.	East Harlan	Ages, Ky.	Harlan	5	21,206.00
Kitts Creek Coal Co.		Harlan, Ky.	Harlan	5	77,784.00
Harlan Gas Coal Co.	Gaston	Harlan, Ky.	Harlan	5	77,784.00

producing coal in Western Kentucky, operating nine mines in Hopkins and Webster Counties with the general office at Earlington. During my work in this field and with the St. Bernard Mining Co. I have always found them willing to co-operate with the Department of Mines in every way to improve the efficiency in mining, or lessen the danger of their employees.

They also have equipped themselves with an emergency hospital for ten patients, so that in case of an accident the best of care can be given their employees without having to lose time to transport them elsewhere to a hospital.

They also recently constructed one of the largest power plants in western Kentucky. I hereafter give a brief description of this plant.

CENTRAL POWER PLANT OF ST. BERNARD MINING CO.

The new power plant built by the St. Bernard Mining Co. at Earlington is one of the largest and most modern plants of its character in this section of the state. It was designed by Charles M. Means, Consulting Engineer, of Pittsburg, Pa., who had a representative in the field superintending the construction.

The building has a floor space of about 9,000 square feet and is fire proof throughout. The walls are of brick with steel window sash and the floors and roof of concrete supported by steel girders and purlins. The boiler and turbines are all under one roof, but separated by a brick fire wall.

The plant equipment consists essentially of three 552 horsepower (each) sterling boilers fired by six retort Westinghouse automatic stokers, and two 1250 K W General Electric steam turbines with Westinghouse condensers. In other words, the plant has an initial capacity of 2,500 kilowatts or 3,350 horse power.

DESCRIPTION OF BOILERS.

The boilers are commonly known as the vertical water tube type in that the boiler water is contained in tubes suspended vertically and about which the hot gases from the furnace circulate. Each end of these tubes terminates in a boiler drum. The drums, four in number, are also so inter-connected as to form a complete circuit for the water; or expressed differently,

the water lying in any part of the boiler can reach any part by circulating in one direction only. This feature is recognized as essential in good boiler design as it guarantees an equal temperature throughout the boiler, thus preventing unequal expansion of the parts with severe strains and probable rupture.

Boiler tubes are also divided into three groups by means of fire tile so arranged that the hot furnace gases are compelled to take a path about 60 feet in length in contact with the tubes, thus giving plenty opportunity for the gases to impart their heat to the water. It is estimated that the furnace gas reaches a maximum temperature of about 3,000 degrees above the fire and is lowered in temperature to about 600 degrees before it enters the smoke-stack.

AUTOMATIC STOKERS.

The stokers for feeding the furnace are known as the under-feed type, deriving the name from the fact that the coal is forced in under the fire where it is first coked and later burned as it reaches the upper part of the fuel bed. The grates of the stokers are inclined downward to the rear so that the ash and other incombustible matter is worked down the grates until it reaches dumping grates at the rear, from which it can be dumped into concrete hoppers below and grates removed by an ash car. In addition to the natural air draft created by the 150 foot steel smoke stacks, the furnace also receives a forced draft from a turbine driven blower fan.

Coal is brought to the plant by railroad cars, then dumped on the endless belt conveyor and carried onto steel car bunkers over the boilers. These steel bunkers have a total capacity of about 100 tons or sufficient to operate the plant for forty-eight hours. A device known as the automatic tripper operates on the belt and automatically distributes the coal supply to the bunkers. From the bunkers the coal is fed through chutes to the stokers as required.

SUPERHEATED STEAM.

Steam conditions of the plant are as follows: 200 pounds pressure, super heated 100 degrees, that is, having a total tem-

perature of 448 degrees. The turbine and generator are made up into a single unit, direct connected and mounted.

The steam from the boilers pass through nozzles at the turbines and impinges against buckets fixed to a revolving shaft, there by imparting energy to the shaft and in turn to the generator. After leaving the turbine the steam enters the condenser where it comes in contact with sprays of cold water and is condensed. The process of condensing this steam creates a vacuum in the condenser thus increasing the effectiveness of the steam. In order to successfully condense the steam the water entering the condenser must be relatively cold. This water therefore is pumped from the lake through a concrete tunnel and as it becomes heated by the exhaust steam is again discharged to the upper end of the lake where the heat is given off the atmosphere by radiation and evaporation. It is estimated that about 1,200,000 pounds or about 142,600 gallons of cooling water per hour circulate through the condenser when the plant is operating at full capacity.

The exhaust steam from the auxiliary apparatus such as condensers, pumps, stoker, engines, feed pumps, etc., is all carried through a main exhaust pipe to a feed water heater. At this point the steam gives up its heat to the water as it enters the boiler, thus bringing the temperature of same nearly up to the boiling point, 205°F.

2300 Volts.

Electric power generated at this plant is 2300 volts, 3 phase, 60 cycle alternating current. As it leaves the switchboard, the power is taken over five separate lines underground to a steel distributing tower located near the plant. At this tower the voltage is transformed from 2300 to 11,000 and 22,000 volts and then transmitted to the different coal mines operated by the company. At the point of operation the voltage is again reduced to 2300, converted into direct current and in this character applied to general mine work.

It is expected that this one plant will answer all the power requirements of the St. Bernard Mining Company for some time to come, with a probable surplus for sale to the nearby

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Blue Diamond Coal Co.		Blue Diamond, Ky.	Perry	6	283,139.00
No. 4 Superior Coal Co.		Lennutt, Ky.	Perry	6	36,817.90
Buckhorn Coal Co.	Buckhorn	Yerkes, Ky.	Perry	6	9,489.00
Masons Creek Coal Co.	Ky. Lion	Viper, Ky.	Perry	6	8,009.06
Bolinger-Jones Coal Co.		Hazard, Ky.	Perry	6	3,932.00
Johnson-Hogg Coal Co.		Chavies, Ky.	Perry	6	76,369.05
Algoma Block Coal Co.	Algoma	Lothair, Ky.	Perry	6	92,345.06
Ky. River Coal & Mining Co.		Heiner, Ky.	Perry	6	37,358.00
Ky. Block Mining Co.		Hazard, Ky.	Perry	6	67,812.13
Walkers Branch Mining Co.		Bulan, Ky.	Perry	6	23,017.60
Lots Creek Coal Co.		Bulan, Ky.	Perry	6	38,116.30
Lincoln Coal Co.		Yerkes, Ky.	Perry	6	44,172.14
Blue Grass Coal Corp.		Hazard, Ky.	Perry	6	121,936.82
Ashless Coal Corp.		Lothair, Ky.	Perry	6	145,963.00
Hazard Blue Grass Coal Corp.		Hazard, Ky.	Perry	6	61,767.13
Hombre Coal Co.		Hombre, Ky.	Perry	6	8,455.00
A. M. Gross Mining Co.		Chavies, Ky.	Perry	6	5,981.00
Mitchell Willis Coal Co.		Typo, Ky.	Perry	6	29,411.07
Ajax Coal Co.		Hazard, Ky.	Perry	6	28,284.02
Crawford Coal Corp.		Bonnyman, Ky.	Perry	6	127,670.00
Solar Coal Co.		Yerkes, Ky.	Perry	6	40,548.00
Four In One Coal Co.		Fusonia, Ky.	Perry	6	26,183.00
First Creek Mining Co.		Blue Diamond, Ky.	Perry	6	192,244.20
Reliance Coal & Coke Co.	Glomawr	Glomawr, Ky.	Perry	6	55,945.92
Hazard Jellico Coal Co.		Staub, Ky.	Perry	6	122,909.55
Kenmont Coal Co.	Kenmont	Jeff, Ky.	Perry	6	120,636.58
Storm King Coal Mining Co.	Storm King	Jeff, Ky.	Perry	6	40,358.00
Hinegan Coal Co.	Donimo	Donimo, Ky.	Perry	6	150,111.59
Montgomery Creek Coal Co.		Sassafras, Ky.	Perry	6	17,986.51
Black Joe Coal Co.	Leonard	Staub, Ky.	Perry	6	24,751.00
Fourseam Block Coal Co.	Fourseam	Diablock, Ky.	Perry	6	49,756.04
Total tonnage					2,966,426.75
Carrs Fork Coal Co.		Alcock, Ky.	Perry	6	

Baker Coal Co.	Viper, Ky.	6	.....
Defiance Coal Mining Co.	Hazard, Ky.	6	.....
Darb Fork Coal Co.	Hazard, Ky.	6	.....
Clinton Coal Co.	Jeff, Ky.	6	.....
C. H. McDonald Coal Co.	Glenn, Ky.	6	.....
Indian Head Coal Co.	Bulan, Ky.	6	.....
Blue Jay Coal Co.	Hazard, Ky.	6	.....
Yerkes Coal Co.	Yerkes, Ky.	6	.....
Blue Jackett Coal Co.	Glomawr, Ky.	6	.....
Mumcy Coal & Mining Co.	Krypton, Ky.	6	.....
Himler Coal Co.	Warfield, Ky.	7	.....
Earlston Coal Co.	Kermitt, W. Va.	7	.....
Flow Mining Co.	Kermitt, W. Va.	7	.....
Total tonnage			30,295.25
Warfield Coal Co.	Kermitt, W. Va.	7	.....
Cub Mountain Coal & Coke Co.	Cincinnati, Ohio	7	.....
Dempsey Coal Co.	Grey Eagle, W. Va.	7	.....
Knott Coal Corp.	Sassafras, Ky.	7	.....
Torchlight Coal Co.	Torchlight, Ky.	7	8,042.10
McStaff Coal Co.	Torchlight, Ky.	7	3,379.00
Dry Fork Coal Co.	Belltrace, Ky.	7	5,994.00
Sureburn Coal Co.	Peach Orchard, Ky.	7	8,797.50
Crystal Block Collieries Co.	Richardson, Ky.	7	9,038.87
Total tonnage			35,251.47
Consolidation Coal Co.	Van Lear, Ky.	7	44,474.00
Consolidation Coal Co.	Van Lear, Ky.	7	64,208.00
Consolidation Coal Co.	Van Lear, Ky.	7	48,276.00
Consolidation Coal Co.	Van Lear, Ky.	7	96,447.00
Consolidation Coal Co.	Van Lear, Ky.	7	72,721.00
North East Coal Co.	Paintsville, Ky.	7	99,234.00
North East Coal Co.	Paintsville, Ky.	7	12,219.00
North East Coal Co.	Paintsville, Ky.	7	110,390.00
North East Coal Co.	Paintsville, Ky.	7	87,657.00
North East Coal Co.	Paintsville, Ky.	7	28,844.00
Green Rock Coal Co.	Riceville, Ky.	7	9,649.00
Royal Collieries Co.	Offutt, Ky.	7	61,657.00

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Agers-Lang Coal Co.		Williamsport, Ky.	Johnson	7	18,975.00
H. I. Grade Block Coal Co.		Denver, Ky.	Johnson	7	7,604.02
Demer Coal Co.		Denver, Ky.	Johnson	7	10,889.18
Total tonnage					772,286.20
Lime Branch Coal Co.		Denver, Ky.	Johnson	7	
Greasy Creek Coal Co.		Paintsville, Ky.	Johnson	7	
Wells Elkhorn Coal Co.	No. 1	Lacey, Ky.	Floyd	7	27,284.00
Wells Elkhorn Coal Co.	Black Diamond No. 2-3				
Wells Elkhorn Coal Co.	No. 4	Estill, Ky.	Floyd	7	50,711.00
Wells Elkhorn Coal Co.	No. 5	Lacey, Ky.	Floyd	7	49,829.00
Elkhorn Star Coal Co.	No. 1	Estill, Ky.	Floyd	7	2,560.00
Elkhorn Star Coal Co.	No. 2	Minnie, Ky.	Floyd	7	14,101.32
Elkhorn Piney Coal & Mining Co.	No. 1-2	Minnie, Ky.	Floyd	7	15,109.25
Elkhorn Piney Coal & Mining Co.	Caleb 3-4-5-7	Weeksbury, Ky.	Floyd	7	183,350.21
Elkhorn Coal Corporation	No. 325	Weeksbury, Ky.	Floyd	7	98,380.80
Elkhorn Coal Corporation	No. 326	Garrett, Ky.	Floyd	7	29,509.56
Elkhorn Coal Corporation	No. 327	Garrett, Ky.	Floyd	7	11,583.45
Elkhorn Coal Corporation	No. 329	Garrett, Ky.	Floyd	7	48,107.44
Elkhorn Coal Corporation	No. 328-31	Wayland, Ky.	Floyd	7	50,834.73
Elkhorn Coal Corporation	No. 330	Wayland, Ky.	Floyd	7	58,464.58
Elkhorn Coal Corporation	No. 351	Wayland, Ky.	Floyd	7	20,511.50
Blue Beaver Coal Co.		Wayland, Ky.	Floyd	7	14,703.07
Blue Beaver Elkhorn Fuel Co.		Prestonsburg, Ky.	Floyd	7	36,045.00
Purity Cannel Coal Co.		Lygon, Ky.	Floyd	7	18,209.00
Eureka Coal & Mining Co.		Prestonsburg, Ky.	Floyd	7	21,407.25
Elkhorn Block Coal Co.		Prestonsburg, Ky.	Floyd	7	
Elkhorn Collieries Co.	Redhall	Orkney, Ky.	Floyd	7	21,584.00
Royal Elkhorn Coal Co.		Revsinsville, Ky.	Floyd	7	16,385.00
Big Elkhorn Coal Co.		McDowell, Ky.	Floyd	7	30,443.00
Goodin & Barney Coal Co.		Revsinsville, Ky.	Floyd	7	43,534.00
Beaver Elkhorn Coal Co.		Revsinsville, Ky.	Floyd	7	17,309.00
Middle Creek Coal Co.		Revsinsville, Ky.	Floyd	7	10,284.00
		Prestonsburg, Ky.	Floyd	7	97,324.86
		Prestonsburg, Ky.	Floyd	7	12,707.00

Standard Elkhorn Coal Co.	Garrett, Ky.	Floyd	7	56,017.00
Harold Coal & Coke Co.	Harold, Ky.	Floyd	7	35,247.62
Floyd Elkhorn Consolidated Collieries	Drift, Ky.	Floyd	7	42,264.15
St. Paul Coal Co.	Betsy Layne, Ky.	Floyd	7	17,412.00
Cumberland Coal & Coke Co.	Melvin, Ky.	Floyd	7	7,773.00
Malone Elkhorn Coal Co.	Allen, Ky.	Floyd	7	4,862.00
Lorain Elkhorn Coal Co.	Melvin, Ky.	Floyd	7	9,066.00
Cliff Coal Co.	Cliff, Ky.	Floyd	7	20,903.00
Ky. Beaver Collieries Co.	Banner, Ky.	Floyd	7	16,944.00
Pike Floyd Coal Co.	Betsy Layne, Ky.	Floyd	7	35,477.00
Prestonsburg Coal Co.	Prestonsburg, Ky.	Floyd	7	43,975.00
North East Coal Co.	Auxier, Ky.	Floyd	7	25,348.05
Collins Mining Co.	Lackey, Ky.	Floyd	7	9,935.45
Anchor Coal Co.	Prestonsburg, Ky.	Floyd	7	19,026.00
Dwale Coal Co.	Allen, Ky.	Floyd	7	18,648.00
Long Branch Coal Co.	Drift, Ky.	Floyd	7	20,729.00
Superior Elkhorn Coal Co.	Hueysville, Ky.	Floyd	7	15,146.00
Northern Elkhorn Coal Co.	Prestonsburg, Ky.	Floyd	7	59,850.00
Colonial Coal & Coke Co.	Prestonsburg, Ky.	Floyd	7	30,392.00
Stover Elkhorn Coal Co.	Lackey, Ky.	Floyd	7	22,856.00
Edgemont Fuel Co.	Minnie, Ky.	Floyd	7	31,423.26
Zella Mining Co.	Lackey, Ky.	Floyd	7	37,223.45
Beaver Creek Coal Co.	Alphoretta, Ky.	Floyd	7	9,888.70
Walson Coal Co.	Emma, Ky.	Floyd	7	22,036.00
Lackey Mining Co.	Lackey, Ky.	Floyd	7	13,758.00
Martha Leslie Coal Co.	Emma, Ky.	Floyd	7	8,727.00
Virginia Mining Co.	Allen, Ky.	Floyd	7	15,157.25
Cow Creek Coal Co.	Emma, Ky.	Floyd	7	1,660,033.95
Total tonnage				
Arzilla By-Product Coal Co.	Alphoretta, Ky.	Floyd	7	
Regal Block Coal Co.	Ivel, Ky.	Floyd	7	
Samoset Fuel Corp.	Smalley, Ky.	Floyd	7	
Williams Coal Co.	Prestonsburg, Ky.	Floyd	7	
J. N. Meek Coal Co.	Drift, Ky.	Floyd	7	
Printer Elkhorn Co.	Printer, Ky.	Floyd	7	
Liberty Coal Corp.	McDowell, Ky.	Floyd	7	
Glogora Coal Co.	Wayland, Ky.	Floyd	7	
Trivette Coal Co.	Smalley, Ky.	Floyd	7	

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Pivot Rock Coal Co.		Smalley, Ky.	Floyd	7	
McGuire Elkhorn Coal Co.		Smalley, Ky.	Floyd	7	
Millers Creek Kentucky Mining Co.		Auxier, Ky.	Floyd	7	
Pond Creek Coal Co.	No. 1	Hardy, Ky.	Pike	8	60,766.95
Pond Creek Coal Co.	No. 2	Stone, Ky.	Pike	8	56,718.00
Pond Creek Coal Co.	No. 3	Stone, Ky.	Pike	8	123,684.00
Pond Creek Coal Co.	No. 4	Stone, Ky.	Pike	8	75,217.55
Pond Creek Coal Co.	No. 5	Peg, Ky.	Pike	8	82,869.75
Pond Creek Coal Co.	No. 6	McVeigh, Ky.	Pike	8	85,060.53
Pond Creek Coal Co.	No. 7	McVeigh, Ky.	Pike	8	146,960.55
Pond Creek Coal Co.	No. 8	Pinson Fork, Ky.	Pike	8	94,168.35
Furnace Coal Mining Co.		Boldman, Ky.	Pike	8	23,659.00
Manufactures Coal & Coke Co.		Hellier, Ky.	Pike	8	193,314.45
Mud Lick Coal Co.	Mud Lick	Sharondale, Ky.	Pike	8	47,391.00
Kentucky Block Fuel Co.		Jonancy, Ky.	Pike	8	48,747.00
Keyser Coal Co.		Keyser, Ky.	Pike	8	77,835.00
Leckie Collieries Co.		Alex, Ky.	Pike	8	178,490.00
Kanawha Elkhorn Collieries Co.	Carson	Praise, Ky.	Pike	8	45,101.17
Kanawha Elkhorn Collieries Co.	Bently	Praise, Ky.	Pike	8	32,647.15
Kanawha Elkhorn Collieries Co.		Praise, Ky.	Pike	8	15,053.00
Kanawha Elkhorn Collieries Co.		Praise, Ky.	Pike	8	7,931.34
McKenny Steel Coal Co.		Alka, Ky.	Pike	8	128,600.00
McKenny Steel Coal Co.	Wolfpit	Wolfpit, Ky.	Pike	8	329,509.00
Edgewater Coal Corporation	Cooldale	Hellier, Ky.	Pike	8	164,620.79
Edgewater Coal Co.	Henry Clay	Lookout, Ky.	Pike	8	88,279.00
Edgewater Coal Co.	Lookout	Lookout, Ky.	Pike	8	70,937.97
Keel Coal Co.		Pikeville, Ky.	Pike	8	29,568.00
Mystic Collieries Co.		Mystic, Ky.	Pike	8	172,845.00
Bishop & Hatfield Coal Co.		Williamson, Ky.	Pike	8	21,690.91
West Virginia By-Product Co.		Goody, Ky.	Pike	8	12,063.00
Sullivan Pond Creek Coal Co.		Stone, Ky.	Pike	8	45,848.25
Marietta Coal Co.		Pinson Fork, Ky.	Pike	8	33,923.00
Chas. Lusk & Co.		Shelbiana, Ky.	Pike	8	8,890.00
Elkhorn Gas Co.		Pikeville, Ky.	Pike	8	47,412.40
Carryon Coal Co.		Toler, Ky.	Pike	8	11,043.00
Geordinia & Wallen		Williamson, W. Va.	Pike	8	8,045.25
		Williamson, W. Va.	Pike	8	43,009.20

Big Hollow Coal Co.	.....	Snewana, Ky.	.....	Pike	2,153.00
Triangle Coal Co.	.....	Pikeville, Ky.	.....	Pike	15,608.00
Victor Coal Co.	.....	Stone, Ky.	.....	Pike	25,976.00
Vulcan Collieries Co.	.....	Stone, Ky.	.....	Pike	59,843.00
Tug Valley Fuel Co.	.....	Vulcan, W. Va.	.....	Pike	64,367.00
Tierny Mining Co.	.....	Goody, Ky.	.....	Pike	1,366.00
Thacker Coal Mining Co.	.....	Stone, Ky.	.....	Pike	226,231.00
A. J. Yonce Coal Co.	.....	Rose Siding, W. Va.	.....	Pike	34,345.80
Ky.-Elkhorn Coal Corporation	.....	Pikeville, Ky.	.....	Pike	3,960.00
Funk Coal Co.	.....	Praise, Ky.	.....	Pike	71,361.30
J. D. Smith Coal Co.	.....	Sutton, Ky.	.....	Pike	13,200.00
Greenough Coal Co.	.....	Williamson, W. Va.	.....	Pike	9,832.00
J. B. Elkhorn Coal Co.	.....	Hellier, Ky.	.....	Pike	94,252.00
Buckfield Coal Co.	.....	Hildason, Ky.	.....	Pike	52,742.00
Fall Branch Coal Co.	.....	Yeager, Ky.	.....	Pike	13,527.00
Blake Coal Mining Co.	.....	Chattaroy, W. Va.	.....	Pike	11,687.00
Alma Thacker Fuel Co.	.....	Stone, Ky.	.....	Pike	32,893.55
Alburn Coal Corporation	.....	McCarr, Ky.	.....	Pike	102,737.00
Ranner Pond Creek Coal Co.	.....	McCarr, Ky.	.....	Pike	52,705.00
Christie-Darby Mining Co.	.....	Orinoco, Ky.	.....	Pike	14,855.00
Elkhorn & Shelby Creek Coal Co.	.....	Mossy Bottom, Ky.	.....	Pike	5,969.00
Elkhorn Seam Collieries Co.	.....	Esco, Ky.	.....	Pike	83,820.48
Ford Elkhorn Mining Co.	.....	Yeager, Ky.	.....	Pike	34,730.00
Baily Coal Co.	.....	Robinson Creek, Ky.	.....	Pike	60,515.00
Marrowbone Mining Co.	.....	Toler, Ky.	.....	Pike	124,258.79
Paragon Elkhorn Collieries Co.	.....	Lookout, Ky.	.....	Pike	34,084.00
Orinoco Mining Co.	.....	Dunleavy, Ky.	.....	Pike	51,538.81
P. M. C. Coal Co.	.....	Orinoco, Ky.	.....	Pike	97,062.00
Pond Creek By-Product Co.	.....	Spriggs, W. Va.	.....	Pike	35,457.00
Praise Elkhorn Coal Co.	.....	Williamson, W. Va.	.....	Pike	13,301.00
Ports Salvory Coal Co.	.....	Dunleavy, Ky.	.....	Pike	17,458.00
Rogers Brothers Coal Co.	.....	Edgerton, W. Va.	.....	Pike	271,570.99
R. H. Elkhorn Coal Co.	.....	Virgie, Ky.	.....	Pike	60,021.00
R. F. Bailey Coal Co.	.....	Shelbiana, Ky.	.....	Pike	1,700.00
Sharon Coal & Coke Co.	.....	Williamson, W. Va.	.....	Pike	20,037.00
Steel Coal Co.	.....	Sharondale, Ky.	.....	Pike	51,832.00
Sudduth Coal Co.	.....	Mossy Bottom, Ky.	.....	Pike	48,155.00
Burnwell Coal & Coke Co.	.....	Stone, Ky.	.....	Pike	161,361.37
Winston Elkhorn Coal Co.	.....	Spriggs, W. Va.	.....	Pike	33,163.00
	.....	Regina, Ky.	.....	Pike	26,950.00

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Winston Elkhorn Coal Co.	Kewanee	Kewanee, Ky.	Pike	8	24,706.19
Mossy Bottom Mining Co.		Mossy Bottom, Ky.	Pike	8	7,223.70
Total tonnage					4,740,453.88
Pinson Elkhorn Collieries		Millard, Ky.	Pike	8	
Cub Mountain Coal & Coke Co.		Nolan, W. Va.	Pike	8	
Forks Coal Co.		Millard, Ky.	Pike	8	
Broad Bottom Mining Co.		Pikeville, Ky.	Pike	8	
Black Gem Coal Co.		Toler, Ky.	Pike	8	
Jas. Hatcher Coal Co.		Big Shoal, Ky.	Pike	8	
Yonce Collieries Coal Co.		Mossy Bottom, Ky.	Pike	8	
Webb Coal Co.		Goody, Ky.	Pike	8	
Valley Fuel Co.		Goody, Ky.	Pike	8	
Wade Coal Co.		Williamson, W. Va.	Pike	8	
Waters & Gord Coal Co.		Williamson, W. Va.	Pike	8	
T. N. Huffman Coal Co.		Pikeville, Ky.	Pike	8	

Jan. 1, 1921.

Mr. Lawson Blenkinsopp, Chief Inspector,
Lexington, Ky.

Dear Sir:

I herewith submit to you my annual report of my activities and work as assistant inspector of mines since my appointment about June 15th. Immediately upon the appointment I began to work as assistant inspector in the Second District at Central City, Ky., and remained there until Aug. 1st, at which time I was transferred to the First District at Madisonville, Ky.

Yours very truly,

Wm. Roberts,
Assistant Inspector of Mines.

MIDDLEWEST COAL CO., Depot, Ky.

Mr. Max Goodman, Supt., Mr. William Bethel, Mine Foreman.

This mine is located on the I. C. Railroad about one quarter of mile from Depot, Ky. This mine is working the No. 9 Seam Slate fairly good. I inspected this mine June 22, 1920 and found it in the following condition: Sufficient air current entering the mine for the men working, but not being properly distributed to the working places. I instructed the mine foreman to repair stoppings and make it as near air tight as practical, also place a door in the main entry between the first and second north entries so that the air would not short circuit before it reached the working places. Also to dig a sump and drain the mud and water from the entries.

On Aug. 4th, I inspected this mine and found that the conditions were greatly improved since my first inspection. The ventilation was much better, they had also done a great deal of work on the road, had drained the water and removed the mud from the road. The company seem to be co-operating with the Department of Mines.

THE DOVEY MINES, Mercer, Ky.

J. A. Smith, Supt. and General Manager, Sherman Green, Mine Foreman.

This mine is located at Mercer, Ky., on the I. C. Railroad and is working No. 9 Seam. The coal is mined by an electric machine and is hauled by motors. I visited this mine on June 24, 1920 and found it to be in fairly good shape. Good volume of air entering the mine reaching the working places excepting at third and fourth west off of tenth south, seventh and eighth off of fifth south. There was sufficient air at the intake of these entries but was leaking into the stoppings and not reaching the working places. I instructed the mine foreman to go over and repair stoppings making them air tight as possible.

SAULBURG COAL CO., Old Hillside Mine, Hillside, Ky.

Andrew Hogg, Supt., Wm. Hogg, Mine Foreman.

This mine is located on the I. C. Railroad at Hillside, Ky., and working No. 9 Seam Pit Coal gathered to lieaway with mules, hauled from there with rope haulage. I visited this mine on June 29th, 1920, and found that there is not sufficient air anywhere in mine for the men working, stoppings needing repair, air ways blocked by falling slate, general condition in the mine was bad. The cages were worn and in bad condition, the guides and tip outs were also in bad shape. I instructed them to go through the air ways and remove the obstructions and to repair and build new stoppings, and to put in new guides and repair the tip house and on July the 27th, while at the Pacific Coal Company's Mine the Mine Committee was there waiting for me when I came out of the mine, and told me they were on strike at the Old Hillside Mine because they had failed to comply with my recommendations in regard to repairing the tip. This being on Tuesday, I went to see Mr. Hogg, the Superintendent. He told me that he would make the necessary repairs on the tip and asked me to come back on Saturday and inspect it until he could resume operation of the mine. He afterwards notified me that he would not get through with his repairs Saturday and asked me to come out Sunday, this I did and they were not yet through repairing. They continued to work

Sunday night. Monday morning I learned of Mr. W. H. Hunt's appointment as Assistant Inspector of Mines for the Second District. I called Mr. Hunt over the phone and asked him to go with me to the Hillside Mine, we went together and inspected the tip and shaft recommended at that time to put on new ropes and new sheave wheels and he agreed to do so. We recommended to the men that they return to work, as Mr. Hogg, Supt., agreed to make all necessary repairs as soon as possible.

THE PHOENIX COAL CO., Peanut Mine, Tarva, Ky.

Tilden Bridges, Supt., Wm. Abricumber, Mine Foreman.

This is located on the L. & N. R. R. about one-half mile north of Drakesboro, Ky., a shaft mine working No. 9 Seam and is shot off the solid, and is hauled by mules. I visited this mine on June 30th, 1920, found sufficient volume of air in the mine for the men working, but not reaching the working places on account of braddish lines being in bad condition and check curtains also. I instructed the mine foreman to repair stoppings and check curtains, and make a door through the brattice to the escape way and clean out mud and water till men could reach the escape way in safety.

BELTON COAL CO., Belton, Ky., P. O. Yost, Ky.

Mr. J. W. Forsythe, Supt., Wm. Webb, Mine Foreman.

This mine is located on the L. & N. Railroad near Belton, Ky. It is a shaft mine, stray seam, about 40 inches. It is mined by electric machine, hauled by mule. I visited this mine on July 2, 1920 and found it to have sufficient volume of air entering the mine, but was not reaching the working places on the north entries. Stoppings and check curtains need repair, cages in bad condition. I called the attention of the mine foreman to these and recommended that he have them repaired at once.

BROADWAY COAL MINING CO., Simmons, Ky.

Mr. Geo. Burton, Supt., Lester Gandy, Mine Foreman.

is working No. 9 Seam, is mined by electric machines, coal is hauled by electric motors and mules. I visited this mine July

6th, 1920, I found the mine in bad shape as the main air ways were blocked with slate till I could scarcely crawl through them, check curtains and stoppings all needed repair. I instructed the mine foreman to remove obstacles out of the air ways and to repair stoppings. This is a shaft mine, slate roof, fairly good.

GEO. RUDY COAL CO., Owensboro, Ky.

Geo. Rudy, G. M., R. W. Magdalena, Supt., Lewis Woods, Mine Foreman.

This mine is located about four miles from Owensboro, it is a shaft mine working No. 9 Seam, is shot off the solid, hauled by mule. I visited this mine on July 8th. found it to be in fairly good condition. Company willing to cooperate with the Department of Mines in any way possible. This mine is well equipped with self dumping cages, good tip house, everything in good condition for a wagon mine.

MILLER & OVERSTREET COAL CO., Owensboro, Ky.

William Overstreet, Supt., John Maglinger, Mine Foreman.

This mine is located about $4\frac{1}{4}$ miles from Owensboro, wagon mine, working No. 9 Seam, and is shot off solid, hauled by mules. I visited this mine on the 7th day of July, 1920, found the conditions not very good, as to ventilation. They were having trouble and I made some recommendations to mend the partition wall or casing between the main shaft and the air shaft so that the air would not short circuit.

MADISON COAL CORPORATION, Central City, Ky.

W. B. Mix, District Supt., John Little, Mine Foreman.

This mine is located on the I. C. R. R. at Central City, Ky., work No. 9 Seam and is mined by electric machines, coal is hauled by electric motor and mules. I visited this mine on July 30th and 31st and found it to be in very fair condition.

LIBERTY COAL CO., Hillside, Ky.

Known as the Woodson Mine.

E. A. Hall, Supt.; Oscar Bullock, Mine Foreman.

This mine is located at Hillside, Ky., on the I. C. Railroad,

working No. 9 seam and is hauled by mules and motors, mined by electric machine. Is a shaft mine with slate roof, fairly good. I visited this mine on July 12th, 1920, found it to be in bad condition and not sufficient air entering the mine where the men work. I recommended to clean out obstructions in the air course and to install a booster fan to increase the velocity so that the men might have sufficient air. I also noted that the casing around the fan was leaking, losing considerable amount of air, and the hoisting rope was badly worn. I instructed to repair the caging around the fan and to change ropes.

ROGERS BROS. COAL CO., Bevier, Ky.

Jas. Rogers, Supt. & G. M.; R. A. Casebier, Mine Foreman.

This mine is located in Bevier, Ky., on the L. & N. Railroad, is a drift mine, working No. 9 seam, electrically mined, is hauled by mules and electric motors, reasonably good slate roof. I visited this mine on July 19th, 1920, found the mine in very fair condition.

BLACK DIAMOND COAL CO., Drakesboro, Ky.

Black Diamond No. 2 Mine.

W. W. Bridges, Supt. and G. M.; Henderson Mason Mine Foreman.

This mine is located at Drakesboro, Ky., on the L. & N. Railroad, and is a shaft mine, working No. 9 Seam, slate roof fairly good, is mined by electric machine and hauled by electric motors. I visited this mine on July 20th, 1920, and found that it had very poor ventilation all over the mine. I instructed the mine foreman and Superintendant to hang doors and build stoppings to conduct the air to the working place as required by Ky. Mining Laws.

E. M. T. COAL CO., Island, Ky.

J. B. McHargue, Supt. and G. M.; John O'Neal, Mine Foreman.

This mine is located on the L. & N. Railroad, about one mile from Island, Ky., is a shaft mine, working No. 9 Seam, is shot of the solid, is hauled by mules, has slate roof in good

R. R., Providence, Ky., is a slope mine, working No. 11 Seam, coal is shot off the solid, is hauled by mules, has a lime stone roof.

THE HUNTER COAL CO., Providence, Ky.

R. W. Hunter, G. M.; Will Dillender, Mine Foreman.

The Pleasant Valley Mine is located on the I. C. R. R. at Providence, Ky., is a drift mine working No. 9 Seam, coal is shot off the solid and is hauled with mules to the outside and with a steam locomotive to tip house. This mine is black slate roof fairly good and is operated on a double entry system.

NORTON COAL MINING CO., No. 1, Nortonville, Ky.

S. S. Lanier, G. M.; Wm. Belcher, Mine Foreman.

This mine is located at Nortonville, Ky., on the I. C. R. R. and L. & N., is a shaft mine working No. 9 Seam, No. 11 and No. 12, coal is mined by electric machine, hauled by mules and electric motors and is ventilated by Jeffery Centrifugal Fan and is equipped with Ottumwa Hoisting Engine, has a good lime stone roof and is operated by the double entry system.

NORTON COAL MINING CO., No. 2, Nortonville, Ky.

S. S. Lanier, G. M.; W. A. Lindle, Mine Foreman.

This mine is located at Nortonville, Ky., on the L. & N. R. R. is a slope mine working No. 11 and No. 12 Seam, coal is mined with Goodman Brest machines, hauled by mules, this mine is equipped with an electric hoist, ventilated by Jeffery Fan, No. 11 Seam has lime stone roof, No. 12 has slate roof, fairly good. Daily output 350 tons.

NORTON COAL CO., No. 3, Nortonville, Ky.

S. S. Lanier, G. M.; J. N. Jones, Mine Foreman.

This mine is located at Nortonville, Ky., on the I. C. R. R. slope mine working No. 14 Seam, coal is mined by Goodman Short Wall Machines, hauled by mules and rope, coal is left for roof, operated on the double entry system, daily output 150 tons.

Mines Not Co-operating.

Standard Elkhorn Coal Co.	Garrett, Ky.	Floyd	7	56,017.00
Harold Coal & Coke Co.	Harold, Ky.	Floyd	7	35,247.62
Floyd Elkhorn Consolidated Collieries	Drift, Ky.	Floyd	7	42,264.16
St. Paul Coal Co.	Betsy Layne, Ky.	Floyd	7	17,412.00
Gumderland Coal & Coke Co.	Melvin, Ky.	Floyd	7	7,773.00
Malone Elkhorn Coal Co.	Allen, Ky.	Floyd	7	4,862.00
Lorain Elkhorn Coal Co.	Melvin, Ky.	Floyd	7	9,066.00
Cliff Coal Co.	Cliff, Ky.	Floyd	7	20,903.00
Ky. Beaver Collieries Co.	Banner, Ky.	Floyd	7	16,944.00
Pike Floyd Coal Co.	Betsy Layne, Ky.	Floyd	7	35,477.00
Prestonsburg Coal Co.	Prestonsburg, Ky.	Floyd	7	43,975.00
North East Coal Co.	Auxier, Ky.	Floyd	7	25,348.05
Collins Mining Co.	Lackey, Ky.	Floyd	7	9,935.45
Anchor Coal Co.	Prestonsburg, Ky.	Floyd	7	19,026.00
Dwale Coal Co.	Allen, Ky.	Floyd	7	18,648.00
Long Branch Coal Co.	Drift, Ky.	Floyd	7	20,729.00
Superior Elkhorn Coal Co.	Hueysville, Ky.	Floyd	7	15,146.00
Northern Elkhorn Coal Co.	Prestonsburg, Ky.	Floyd	7	59,850.00
Colonial Coal & Coke Co.	Prestonsburg, Ky.	Floyd	7	30,392.00
Stover Elkhorn Coal Co.	Lackey, Ky.	Floyd	7	22,856.00
Edgemont Fuel Co.	Minnie, Ky.	Floyd	7	31,423.26
Zella Mining Co.	Lackey, Ky.	Floyd	7	37,223.45
Beaver Creek Coal Co.	Alphoretta, Ky.	Floyd	7	9,898.70
Walson Coal Co.	Emma, Ky.	Floyd	7	22,036.00
Lackey Mining Co.	Lackey, Ky.	Floyd	7	13,768.00
Martha Leslie Coal Co.	Emma, Ky.	Floyd	7	8,727.00
Virginia Mining Co.	Allen, Ky.	Floyd	7	15,157.25
Cow Creek Coal Co.	Emma, Ky.	Floyd	7	
Total tonnage				1,660,033.95
Arzilla By-Product Coal Co.	Alphoretta, Ky.	Floyd	7	
Regal Block Coal Co.	Ivel, Ky.	Floyd	7	
Samoset Fuel Corp.	Smalley, Ky.	Floyd	7	
Williams Coal Co.	Prestonsburg, Ky.	Floyd	7	
J. N. Meek Coal Co.	Drift, Ky.	Floyd	7	
Printer Elkhorn Co.	Printer, Ky.	Floyd	7	
Liberty Coal Corp.	McDowell, Ky.	Floyd	7	
Glogora Coal Co.	Wayland, Ky.	Floyd	7	
Trivette Coal Co.	Smalley, Ky.	Floyd	7	

Mines Not Co-operating.

Name of Company	Name of Mine	Post Office	County	District	Tonnage
Pivot Rock Coal Co.		Smalley, Ky.	Floyd	7.	.....
McGuire Elkhorn Coal Co.		Smalley, Ky.	Floyd	7.	.....
Millers Creek Kentucky Mining Co.		Auxier, Ky.	Floyd	7.	.....
Pond Creek Coal Co.	No. 1	Hardy, Ky.	Pike	8.	60,766.95
Pond Creek Coal Co.	No. 2	Stone, Ky.	Pike	8.	56,718.00
Pond Creek Coal Co.	No. 3	Stone, Ky.	Pike	8.	123,684.00
Pond Creek Coal Co.	No. 4	Stone, Ky.	Pike	8.	76,217.55
Pond Creek Coal Co.	No. 5	Peg, Ky.	Pike	8.	82,869.75
Pond Creek Coal Co.	No. 6	McVeigh, Ky.	Pike	8.	85,060.53
Pond Creek Coal Co.	No. 7	McVeigh, Ky.	Pike	8.	146,960.55
Pond Creek Coal Co.	No. 8	Pinson Fork, Ky.	Pike	8.	94,168.35
Furnace Coal Mining Co.		Foldman, Ky.	Pike	8.	23,659.00
Manufactures Coal & Coke Co.		Hellier, Ky.	Pike	8.	193,314.45
Mud Lick Coal Co.	Mud Lick	Sharondale, Ky.	Pike	8.	47,391.00
Kentucky Block Fuel Co.		Jonancy, Ky.	Pike	8.	48,747.00
Keyser Coal Co.		Keyser, Ky.	Pike	8.	77,835.00
Leckie Collieries Co.		Alex, Ky.	Pike	8.	178,490.00
Kanawha Elkhorn Collieries Co.	Carson	Praise, Ky.	Pike	8.	45,101.17
Kanawha Elkhorn Collieries Co.	Bently	Praise, Ky.	Pike	8.	32,647.15
Kanawha Elkhorn Collieries Co.		Praise, Ky.	Pike	8.	15,053.00
Kanawha Elkhorn Collieries Co.		Praise, Ky.	Pike	8.	7,931.34
McKenny Steel Coal Co.		Alka, Ky.	Pike	8.	128,600.00
McKenny Steel Coal Co.	Wolfpit	Wolfpit, Ky.	Pike	8.	329,509.00
Edgewater Coal Corporation	Cooldale,	Hellier, Ky.	Pike	8.	184,620.79
Edgewater Coal Co.	Henry Clay	Lookout, Ky.	Pike	8.	88,279.00
Edgewater Coal Co.	Lookout	Lookout, Ky.	Pike	8.	70,937.97
Keel Coal Co.		Pikeville, Ky.	Pike	8.	29,568.00
Myatic Collieries Co.		Myatic, Ky.	Pike	8.	172,845.00
Bishop & Hatfield Coal Co.		Williamson, Ky.	Pike	8.	21,690.91
West Virginia Ry-Product Co.		Goody, Ky.	Pike	8.	12,063.00
Sullivan Pond Creek Coal Co.		Stone, Ky.	Pike	8.	45,848.25
Marietta Coal Co.		Pinson, Fork, Ky.	Pike	8.	33,923.00
Chas. Lusk & Co.		Shelbiana, Ky.	Pike	8.	8,890.00
Elkhorn Gas Co.		Pikeville, Ky.	Pike	8.	47,412.40
Carryon Coal Co.		Toler, Ky.	Pike	8.	11,043.00
Goodwin & Wallen		Williamson, W. Va.	Pike	8.	8,046.25
		Norfolkland, W. Va.	Pike	8.	43,009.20
			Pike	8.	42,989.30

Big Hollow Coal Co.	Shelbiana, Ky.	8	2,153.00
Triangle Coal Co.	Pikeville, Ky.	8	15,606.00
Victor Coal Co.	Stone, Ky.	8	25,976.00
Vulcan Collieries Co.	Stone, Ky.	8	59,843.00
Tug Valley Fuel Co.	Vulcan, W. Va.	8	64,367.00
Tiery Mining Co.	Goody, Ky.	8	1,366.00
Thacker Coal Mining Co.	Stone, Ky.	8	226,231.00
A. J. Yonce Coal Co.	Rose Siding, W. Va.	8	34,345.80
Ky.-Elkhorn Coal Corporation	Pikeville, Ky.	8	3,960.00
Funk Coal Co.	Praise, Ky.	8	71,361.30
J. D. Smith Coal Co.	Sutton, Ky.	8	13,200.00
Greenough Coal Co.	Williamson, W. Va.	8	9,832.00
Buckfield Coal Co.	Hellier, Ky.	8	94,252.00
Fall Branch Coal Co.	Hildason, Ky.	8	52,742.00
Blake Coal Mining Co.	Yeager, Ky.	8	13,527.00
Alma Thacker Fuel Co.	Chattaroy, W. Va.	8	11,687.00
Alburn Coal Corporation	Stone, Ky.	8	32,893.55
Banner Pond Creek Coal Co.	McCart, Ky.	8	102,737.00
Christie-Darby Mining Co.	McCart, Ky.	8	52,705.00
Elkhorn & Shelby Creek Coal Co.	Orinoco, Ky.	8	14,855.00
Elkhorn Seam Collieries Co.	Mossy Bottom, Ky.	8	5,969.00
Ford Elkhorn Mining Co.	Esco, Ky.	8	83,820.48
Baily Coal Co.	Yeager, Ky.	8	34,730.00
Marrowbone Mining Co.	Robinson Creek, Ky.	8	60,515.00
Paragon Elkhorn Collieries Co.	Toler, Ky.	8	124,258.79
Orinoco Mining Co.	Lookout, Ky.	8	34,084.00
P. M. C. Coal Co.	Dunleary, Ky.	8	51,538.81
Pond Creek By-Product Co.	Orinoco, Ky.	8	97,062.00
Praise Elkhorn Coal Co.	Spriggs, W. Va.	8	35,457.00
Porta Salvory Coal Co.	Williamson, W. Va.	8	13,301.00
Rogers Brothers Coal Co.	Dunleary, Ky.	8	17,458.00
R. H. Elkhorn Coal Co.	Edgerton, W. Va.	8	271,570.99
R. F. Bailey Coal Co.	Virgie, Ky.	8	60,021.00
Sharon Coal & Coke Co.	Shelbiana, Ky.	8	1,700.00
Steel Coal Co.	Williamson, W. Va.	8	20,037.00
Sudduth Coal Co.	Sharondale, Ky.	8	51,832.00
Burnwell Coal & Coke Co.	Mossy Bottom, Ky.	8	48,155.00
Winston Elkhorn Coal Co.	Stone, Ky.	8	161,361.37
	Spriggs, W. Va.	8	33,163.00
	Regina, Ky.	8	26,950.00

Clarence Jameson, and Henry Jameson, unconscious in room 49 off West 15 Entry.

Emmitt Franklin was not found.

Leonard Luton, conscious in West 15 Entry opposite room 52.

Madisonville, Ky.

November, 19, 1920.

On November 16th fire broke out in the Arnold mine of the St. Bernard Mining Company at Earlington, Ky., when seventeen men were caught in Nos. 14, 15 and 16 entries. Fire was first discovered at 2 p. m. by a colored driver driving from a lieaway at or about Nos. 44 to 47 rooms and the officials were notified at once, also the Mine Department. Mr. Roberts, Assistant State Inspector for the district at Madisonville who was out in the field got to the mine at 7 p. m. A crew had been organized at this time and work had begun on temporary stoppings to establish ventilation through rooms at right of entry 16 West to effect a rescue of these seventeen men in the affected district. This was rushed with all energy to No. 13 room when heat indicated the fire. The brattice was continued on the intake side to No. 20 room when the stopping was removed to short circuit the smoke through to 15 entry where it would return outside, and take the smoke off the men affected. The rescuing party got to the men at 1:50 a. m., on the 17th inst. who had barricaded themselves in by erecting a wooden brattice at 48 room, 16 West entry, and there they found eleven men living, five dead and one unaccounted for. A diligent search was made for this man through the affected area as far back as could be gone for the smoke or to No. 30 room when all hope of recovery of this man, Emmitt Franklin, colored, was abandoned, after a careful consultation with Geo. L. Powell, in charge of the bureau of Mine car, Mr. Wm. Roberts, Assistant Inspector and the mine officials. It was then decided to seal up the affected area, which was done.

The men who were found alive were given medical attention inside the mines by resident physicians and physicians from

Madisonville and afterwards removed to the hospital, the dead being turned over to the undertakers.

On the morning of the 18th Chief Inspector of Mines Blenkinsopp, and Assistant Inspector Williams, of Lexington, also W. H. Hunt, Assistant Inspector of Central City arrived and with Mr. Roberts proceeded to make a joint inspection, but as the affected district had been sealed a decision could not be given as to the origin of the fire at this time.

The theory had been advanced that a fire in the upper or No. 11 seam had penetrated the strata to the No. 9 seam at this point, but after comparing maps of both mines we find the distance between the two fires 2600 feet with 80 feet of strata between the two seams. A section of the strata shows, beginning at the top of No. 9 seam, two to five feet of black slate, 22 feet of gray slate, fifty feet of solid sandstone and three feet of fire clay immediately under the No. 11 seam. None of this strata was broken by caves at the point of the origin of the fire; neither did the affected area of fire in No. 11 show any near above normal temperature, nor the surface any caves in the immediate vicinity of the fire in No. 11, which occurred in 1913, and upon examination of the stoppings of the affected area of No. 11, the stoppings were found cool and normal showing no heat whatever.

Provisions have been made at these stoppings to take temperature readings daily, and as soon as the temperature becomes normal the affected area will be reopened and the body that is now enclosed recovered and also a thorough investigation made as to the origin of the fire.

The officials of the Bureau of Mines and State Department of Mines, in their efforts to rescue the imprisoned men, received efficient co-operation from the employees of the St. Bernard Mining Company and the officials of the West Kentucky Coal Company of Sturgis, Ky., and officials of the U. M. W. of A. of Dist. 23.

L. BLENKINSOPP, Chief Inspector of Mines.

WM. ROBERTS, U. D. WILLIAMS, W. H. HUNT, Assistant Inspectors of Mines.

ST. BERNARD MINING CO.

Earlington,, Ky.,
December, 31, 1920.

Mr. Lawson Blenkinsopp,
Chief Inspector of Mines,
Lexington, Ky.

Dear Sir:—We wish to inform you that the body of Emmitt Franklin, colored, who lost his life in the fire in our Arnold Mine, on November 16, 1920, was found about 11:30 p. m., December 28, 1920. The exact location of the body was in the extreme corner Right hand rib at the widening of Room 25 on 14th West Entry.

Very truly yours,
H. S. Sizemore,
Ass't Gen'l Superintendent.

INQUEST.

In the Matter of Inquest held before J. D. Clark, Coroner of Hopkins County, Ky., over the dead body of H. M. Perkins at Earlington, Hopkins County, Ky., on the 16th day of Nov., 1920.

VERDICT OF THE JURY

We, the jury, summoned and sworn to inquire into and say in writing what manner H. M. Perkins came to his death, when, where, how and by whom, and who were present, and who are culpable of the act if any one, find that the body before us is that of H. M. Perkins, about 42 years of age and that he came to his death in the following manner to-wit:—by fire in Arnold Mine November 16, at Earlington, Ky. Cause of fire unknown to us.

This 18th day of November, 1920.

Joe Brown; Marion Goodloe; W. T. Hogge; J. E. McAfee; Oscar East and Wesley Hancock. Jury.

Witnesses:—Frank Rash; Mr. Nichols, Foreman; Wash Hines; Orland Luton; Will Rodgers and Tom Payton.

This 18th day of November, 1920. J. D. Clark, Coroner Hopkins County.

Attest:

Roscoe Eastwood, Clerk and Sec.

Elex James, 27 years; George Andrews, colored, about 60 years; Roy Carns, 23 years; Jack Bond, 46 years.

Hon. Lawson Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky.

Dear Sir: I herewith submit my Annual Report as Inspector of the Second District of Kentucky, for the year ending December 31, 1920. I am pleased to report that I have received the hearty co-operation of the operators, mine officials and miners, during the past year.

Respectfully yours,
W. H. Hunt,
Asst. Inspector 2nd District.

PACIFIC COAL CO., Mercer, Ky.
Express Office, Central City, Ky.

This mine is located on the Illinois Central R. R. Three miles South of Central City. Was opened in 1901 by Shelby Gish; sold by him to L. T. Dixon, Chicago. This property was bought by the present owners Apr. 15th, 1918.

Officers: Anna L. Glass, Pres.; Irvin L. Glass, V. Pres.; C. D. Glass, Sect. & Treas.; J. O. Baily, Mine Foreman; Will Foster, Electrician.

This is a shaft mine 80 feet deep working No. 9 Seam 5 feet thick, has good shale roof working on the double entry system, shot on the solid, shot fires men charge and load their own holes.

Equipment: 3 Walton Boilers, 100 H. P. each, 1 Morgan Gardner 100 K. W. Generator; Leitchfield Hoisting Engines; 10 feet fan self dumping cages Shaker Screens; one 8 ton Jeffrey Locomotive. Daily output of 800 tons.

MORGAN MINE.

Inspected Sept. 30th, 1920.

Rework brattice line on Eighth North entry, no reading

could be had at this point. Over haul stairway in escape shaft Bannister each section of ladder. Guard Generator Belt and Switch Board.

Guard Trolley at eight north and eight south side track. You have 10 days to put ladder in safe condition.

Timbering, Drainage, and Machinery satisfactory.

PHOENIX COAL CO., Tarma, Ky.

Officers: Jas. B. Torbert, Pres.; C. C. Houston, V. Pres.; P. D. Houston, Treas.; W. A. Nelson, Secty.; Granger Simpson, Foreman; J. T. Bridges, Supt.

This is a shaft mine located on O. & N. R. R. 5 miles south of Central City. Was taken over by present owners in Nov. 1918, and developed up to this time the No. 9 Coal had not been worked. Coal averages 5 feet, 6 inches no parting, hard slate roof of excellent quality, hard fire clay bottom.

Equipment: 3 Sullivan Shortwall Machines, one six ton Westinghouse Locomotive; two 150 H. P. tubular Boilers. One 100 K. W. Westinghouse direct Generator to an Erie Ball Engine; one 50 K. W. Westinghouse Generator direct connected to an Erie Ball Engine; Hanna made Shaker screens has an output of 800 tons per day.

PHOENIX No. 1 MINE.

Inspected Aug. 13th, 1920.

Provide passage way around shaft. Supply Mine Foreman with Anemometer. Two open crosscuts 3rd North entry. Curtains in bad shape 3rd and 4th South Entrys no reading.

Timbering, Drainage, and Machinery Satisfactory.

MINE NO. 2.

Same Officials.

Located at Drakesboro. Known as the Peanut Mine, taken over by present owners in Jan. 1919.

Working No. 9 Coal T. V. high. Hard slate roof and hard clay bottom. This is a solid shooting mine and mule haulage. 2 100 H. P. Boilers no Electrical Equipment.

J. T. Bridges, Supt.; Tom Gaddis, Mine Foreman.

PHOENIX No 2.

Inspected Dec. 14th, 1920.

Renew all curtains and brattices over mine. Build brattice at crosscut pump on 2 South East Entry. Place curtain between 3 and 4 rooms on 2nd, East Entry.

Timbering, Machinery and drainage satisfactory.

KENTUCKY MIDLAND COAL CO., Central City, Ky.

Midland, Ky. -

Officers: E. J. C. Bealer, Pres.; G. B. Hengen, V. Pres.; G. M. Averill, Treas.; Geo. B. Dutton, Secty.; M. M. Wheeler, Genrl. Mgr.; J. W. Blackwell, Supt.; J. T. Cadwallender, Mine Foreman.

Mine is located on the Ky. Midland Railroad 7 miles West of Central City, Ky., and most of coal shipped via the Ky. Midland and I. C. R. R. its present rated capacity 800 tons. Working No. 9 coal 4 feet 6 inches to five feet 2 inches thick, no partings in this coal, roof is of slate, and considered an average for No. 9 coal. Preparing all grades for market demands.

Shaft is 10x18 in the clear, and air shaft 8x12 in the clear, depth 185 feet both shafts are lined with 8x12 timbers down to the rock.

The tipple is of Steel also shaker screens, all of which were put in by the Marcus Bridge and Iron Works, of Peoria, Ill.

Equipment:—Using 9 Jeffrey Breast machines, 4 Goodman Shortwall, one 5 ton Westinghouse Locomotive.

Two—150 H. P. Brownwell Tubular boilers, 1—50 H. P. Vogt boiler, 1—125 K. W. 250 Volt Goodman Generator, 1—200 H. P. Skinner Engine Danville first Motion Hoisting Engines, 18x36 with foot brake and 5 foot drum; Air is supplied by a Jeffery reversible steel fan, rated at 200,000 cu. ft. per minute.

MIDLAND MINE.

Inspected Aug. 24th, 1920.

Sufficient air entering your mine but no reading on several entries due to leaky brattices, 2 open crosscuts on 3rd and 4th,

North entries; Clean main haulage way and keep washhouse in a clean and sanitary condition.

Timbering, Drainage and Machinery satisfactory.

GIBRALTAR COAL CO., Central City, Ky.

General Office, Memphis, Tenn., Express Office, Central City.

Officials: R. L. Brown, Pres.; J. Marks, V. Pres.; R. F. Lacroix, Sect. and Treas.; J. A. Smith, Gen. Mgr.; Warner Rich, Mine Foreman.

Brownsville Mine, Located on I. C. R. R. three miles west of Central City. This is a shaft mine 48 feet deep working No. 9 Seam 5 feet thick, has good shale floor and roof, worked on a double entry system and pannell system, dips 1 per cent N. E. has a tonnage of 1200 tons daily.

Equipment: 13 Goodman breast machines, 3 Godman ten ton Locomotives, four 150 H. P. Boliers, 1 300 K. W. Ridge-way Generator and Engine, one 16x32 Crawford and McCrawford Hoisting Engines, Shaker Screens.

DOVEY MINE.

Same officials, S. A. Green, Mine Foreman, Tim Tate, Chief Electrician.

Equipment: Located two miles west of Central City, working No. 9 Seam 5 feet excellent roof conditions; seven shortwall Sullivan Mining Machines; two 5 ton Goodman Locomotives, three 150 H. P. boilers; one 150 K. W. Westinghouse Generator with Russell Engine; one Crawford and McCrimmon 16x32 Hoisting Engine, Shaker screens daily output of 800 tons.

BROWNSVILLE MINE

Inspected December 7th, 1920.

Satisfactory in every particular.

DOVEY MINE

Not inspected due to the lack of time.

GIBRALTAR COAL MINING CO., HOLT MINE.

This mine was purchased from the Holt Coal Co., in June,

1920, located on the O. N. R. R. 1 1-2 miles South of Central City, same officials as the other mines.

A. T. Baker, Supt.; Will Abercumbie, Mine Foreman, Oscar Durham, Electrician.

This is a shaft mine 130 feet deep, working on the three entry system on main and double entry on cross entrys, has a shale roof which is not very good, No. 9 Seam 5 feet 4 inches.

Equipment, Five Sullivan Shortwall Machines, 1 Goodman eight ton Locomotive, 4 150 H. P. boilers, 1 200 K. W. Ridge way Generator Engine, shaker screens, daily output 900 tons.

HOLT MINE

Inspected October, 18th, 1920.

Air not reaching working face. Over haul brattices and curtains on Main. Drainage, timbering, and Machinery satisfactory.

GIBRALTAR COAL CO., Brownie Mine.

This mine is just being opened developing from air shaft while main shaft is being put down.

Same Officials: Operating No. 9 Seam, 4 feet 10 inches high, roof conditions good, located two miles east of Central City on the I. C. R. R.

Equipment: Two Goodman Breast Machines, one 150 and 100 H. P. boilers, one 100 K. W. Ridgeway Generator and Engine, Ottumwa Hoisting Engine, at present has an output of 100 ton, plans are for 5000 ton mine when it is completely developed.

J. H. Tucker, Supt., J. T. Edwards, Mine Foreman, Fess Baker, Electrician.

Not inspected yet.

RODGERS BROS. COAL CO., Bevier, Ky.

Officers: Fon Rodgers, Pres., J. L. Rodgers, V. Pres., Lon Rodgers, Sec. & Treas.

This mine is located on the O. & N. R. R. Four miles south of Central City, this is a drift mine elevating coal up incline

to tippie No. 9 coal 5 foot thick worked on the double entry system, has a hard shale roof.

Equipment: Six shortwall mining machines, and two breast machines. Four Goodman ten ton locomotives. One General Electric and one Goodman Generator 3-150 H. P. boilers, standard shaker screens, daily tonnage 1000 tons.

R. A. Casebier, Mine Foreman, C. H. Maddox, Electrician.
Not inspected for lack of time since my appointment.

W. A. WICKLIFF COAL CO., Browder, Ky.

Officers: W. A. Wickliff, Pres., E. J. Puryear, V. Pres., C. M. Martin, Gen. Mgr., M. L. Wickliff, Sec. & Treas.

This is a shaft mine located on the O. N. R. R., seven miles south of Central City, No. 9 coal average thickness 6 foot with excellent roof shaft 200 foot deep has an output of 1600 tons per day, have at the mine three Wolf safety lamps, one Kohler, two first aid outfits on hand.

Equipment: Seven Sullivan Shortwall Machines and four Jeffery breast machines, one ten ton Jeffery Locomotive, one ten ton General Electric Locomotive and one four ton General Electric, one 200 H. P. Return Tubular Boiler and two 100 H. P. Return Tubular Boilers, installing at present two 350 H. P. Water Tube Boilers equipped with Automatic Under-feed Stokers, One General Electric 300 K. W. Reducing Gear D. C. Turbin Driven Generator and one 16x32 Hoisting Engine.

Also installing another generating unit being a Hamilton-Corliss Engine Direct Connected to a 250 K. W. Generator and this will be used as a reserve set.

Also have on foundation a new hoisting engine which is 20x36 Crawford and McCrimmon Engine and it will also be in operation in early spring, building a reinforced concrete powerhouse will be completed in the near future that will be the best in Western Kentucky. Also have a Marcus Horizontal Screen and picking table, manufactured by Roberts and Schafer Mfg. Co., all the coal at this mine is hand picked.

This mine was idle a number of years after being sold by the W. A. Wickliff Coal Co., and in the spring of 1917 the present Company took the property back and started operating

the mine in July, 1917, and the mine has grown from a small tonnage at that time to one of the largest producers in Western Kentucky.

BROWDER MINE .

Inspected Sept. 3rd, 1920.

No signals posted at bottom and top of shaft. Guard trolley wire at 5th and 6th, south, sufficient air entering mine but no reading on second north, six south, second north, seventh north, and fourth east.

This ventilation must be restored at once, machinery, drainage, and timbering, satisfactory.

D. F. Cather, Mine Foreman, Browder, Ky., C. C. Coots, Electrician, Central City, Ky., Gilbert Reynolds, Asst. Electrician, Browder, Ky., C. M. Martin, Supt., Greenville, Ky.

CRESCENT COAL CO., Bevier, Ky.

Officers: W. H. Lindsay, Pres., F. S. Washburn, V. Pres., F. P. Wright, Gen. Mgr., D. D. Duncan, Sec.

Business office, Bevier, Ky., Official office, Nashville, Tenn., Tel. office and Express office, Bevier, O. N. Division L. & N. R. R., located 4 miles south of Central City.

This mine was opened in 1883 by Memphis Coal Co., lessees purchased by the Crescent Coal Co., in 1900. Operating No. 9 coal 5 foot, 4 inch thick, no parting, black slate roof.

Equipment: Ten Goodman Breast Machines, Four Ten Ton Goodman Locomotives, four return tubular boilers two 175 K. W. Generators Electric and mule haulage, one 12 foot Crawford McCrimmon Fan 60,000 capacity. One 8 foot Capewell Fan 75,000 capacity, this is a shaft of 46 feet use 1 inch hoisting ropes. Employes do not use the shaft for entering or leaving the mine. Otis Elevator Engine. Man way slope for use of employes and animals, Oak Tipple, covering four tracks with Twelve Locomotive Shoots, Link Belt Shaker Screens.

No safety lamps, first aid outfit, stretchers and blankets in the mine at main junction, also supplementary supply in office.

This mine has an output of 1200 ton, R. L. Adcock, Mine Foreman, W. W. Graham, Chief Electrician.

I did not visit this mine due to lack of time.

BEECH CREEK COAL CO., Beech Creek, Ky.

Located on L. & N. R. R.

Officials: S. T. Kirkpatrick, Pres., L. Z. Kirkpatrick, V. Pres., A. D. Kirkpatrick, Sec. & Treas. R. R. Kirkpatrick, Asst. Gen. Mgr., A. D. Kirkpatrick, Gen. Mgr., W. H. Chumley, Mine Foreman, Mine No. 1.

P. O. Beech Creek, Express Office, Browder, Ky.

Mine No. 1 was opened in 1905 working No. 9 coal 5 foot, 6 inch heighth, good roof of black slate.

Mine No. 2 was opened in 1913, working No. 9 coal, 5 foot, 6 inch, heighth, good roof.

Mine No. 3 was opened in 1919, working No. 9 coal, 5 foot, 6 inch, heighth, good roof.

Equipment of No. 1 Mine: Four breast machines, four Sullivan Short Wall Machines, one 13 ton Jeffrey Locomotive and one 10 ton Westinghouse 5, 150 H. P. Boiler and 3 Generators one 15x30 Crawford & McCrimmon Hoisting Engine. This is a shaft mine 30 feet deep with automatic dumping cages and shaker screens, one 14 foot Crawford & McCrimmon Fan the same power plant furnishes power for both mines also the two mines of the Kirk Coal Co. Power House Equipment, one 100 K. W. Jeffrey Generator 250 K. W. Jeffery Generator, one 15x16 Skinner engine, one 250 K. W. Ridgeway Generator driven by a 200 H. P. McEwen engine.

(Inspected Oct. 23rd).

Ventilation very weak on 10th, and 12th, north, restore ventilation on west side, put bannisters in escape shaft, ventilation, drainage, timbering and machinery satisfactory.

Mine No. 2, Same officials.

Equipment: Two Goodman breast Machines, one Ten Ton Westinghouse Locomotive. This mine is a drift mine coal is elevated into tipple which is an incline structure for mine shaker screens, Wm. Chumley, mine foreman.

(Inspected Nov. 4th.)

Ventilation very weak, curtains very bad. Renew all curtains, several brattices to be built, to restore necessary air, machinery, drainage and timbering, satisfactory.

Mine No. 3. This is a new mine not equipped yet, just began to run some coal.

(Inspected Nov. 5th.)

No ladder in the second outlet shaft yet. Timbering, ventilation, machinery and drainage satisfactory.

BELTON COAL CO., Yost, Ky.

Officials: C. C. Christopher, Pres, located at Nashville, Tenn., P. A. Forsythe, Gen. Mgr., located at Yost, Ky., Tom Gaddis, Mine Foreman, located at Yost, Ky.

This is a shaft mine 70 feet deep supposed to be No. 9 coal, 3 feet 8 inch in height, worked on the double entry system. Located on O. & N. Branch of the L. & N. R. R., 12 miles south of Central City.

Equipment: Two 150 H. P. boilers, small second motion hoisting engines, 2 short wall Goodman machine, hard shale roof and hard clay bottom. Has an output of 175 ton load mine run coal only.

(Inspected Dec. 20th.)

Magazine too close to mine mouth, fan not sufficient, no passage way around shaft, no safeties on cages.

Recommendations: Move Magazine to a point of 500 feet from mine, build of fire proof material. Place curtain across main entry at 6th, north, put gates at top of shaft. Make passage way around the shaft. Run fan at 150 R. P. M. Put safeties on main cage. Timbering, machinery and drainage satisfactory.

MADISON COAL CORPORATION, Central City, Ky.

Officials: A. J. Moorehead, Pres. & Gen. Mgr., located at Chicago, Ill., F. H. Wolfarth, Sec. & Treas., located at Chicago, Ill., L. B. Rosborough, Purchasing Agent, G. E. Lyman, Gen.

Supt., located at Glen Carbon, Ill., W. B. Mix, District Supt., located at Central City, Ky., John Little, Mine Foreman, located at Central City, Ky., P. H. McDowell, Chief Electrician, located at Central City, Ky.

This mine is known as the No. 10 mine and is situated in the corporation limits of Central City, working the No. 9 Seam average heighth of 4 foot 10 inches, with general good roof conditions, good bottom and very little gas and water. The mine is located on the I. C. Railroad. Mine run coal is what is generally produced but the mine is designed to handle different grades of coal. This is a machine mine, no coal is produced off the solid, 6 Sullivan machines, 3 Goodman shortwall, 3 Sullivan shortwall standard machines, 4 Goodman breast, 3 mine locomotives; one 12 ton general electric, two 10 ton Jeffrey.

The hoisting engine is a first motion Crawford & McCrimmon 18x36 with a 5 foot drum using $1\frac{1}{8}$ hoisting ropes 6x19 Strands. The ventilating fan is a 5x16 driven by 1 Crawford & McCrimmon engine 10x18. The mine is reached by shafts, there being 3 in use now. The hoisting shaft which is 163 feet deep and 9x18 in size, concrete lined to the rock, which is about 30 foot to the rock, the fan shaft is 152 feet deep circular, about 10 feet in diameter bricked down to rock, the air shaft is about 170 feet, 9x12 in size and concrete lined 20 feet down to rock with a stairway with 14 feet landings as the escape-ment. The lever type of safety catches is used working on the face of the guides. The hoisting engine is equipped with a 5 foot steel drum. When cage is at the bottom there is a steam brake and also foot brake. The steam brake is operated by a Welch engine stop which is automatically, in case of an engine run away cuts off the throttle and applies the brake and will stop the engine in 3 revolutions of drum. The plant contains 3, 100 H. P., C. J. Walton boilers and 2, 75 H. P. Walton boilers, working under a pressure of 85 lbs.

The electrical equipment of the plant consists of 2—150 K. W. belt driven generators, and 1—30 K. W. belt driven generators, the latter used for plant lighting and operating of shop machinery when large generator is not in operation. The tippie is constructed of steel with wooden bins. A shaker screen is

used, which was designed and erected by the Fairbanks Morse Company. There are at the mine 2 safety lamps of the Kohler type and are ready at any time, 2 stretchers with 2 woollen and 2 water proof blankets ready at any time for immediate use. A complete machine shop consisting of 2 lathes, and planer, a power pump, a power hack saw, 2 power drills, a hyraulic press and compressor outfit and a movable power compressor outfit for electrical use.

Has a daily output of 1200 tons.

Have not visited this mine due to lack of time.

W. G. DUNCAN COAL CO., No. 2 Luzerne Mine.

Officials: W. G. Duncan, Pres., C. W. Taylor, V. Pres. & Gen. Mgr., A. W. Duncan, Sec. & Treas., W. G. Duncan, Jr., Supt., D. W. Christian, Chief Electrician, R. M. Woodson, Mining Engineer

Luzerne Mine: Working in the No. 9 Seam, 4 foot, 6 inch high, excellent slate roof, and hard clay bottom. Mine is located on Illinois Central Railroad, eight miles from Central City, head office, Greenville, Ky.

Equipment: This is electric machine mine using 7 Sullivan short wall machines 1—13 ton Westinghouse locomotive, 1—10 ton Jeffrey and one 20 ton Tandem Jeffrey locomotive. 1—300 K. W. General Electric Motor generator set, Marcus screens, capacity 1600 ton per day.

A. O. Roll, Mine Foreman, John Walton, Electrician.

(Inspected Dec. 9th, 1920.)

Ventilation, drainage, timbering and machinery satisfactory. Mine satisfactory in every particular.

BEVIER COAL CO., Cleaton, Ky.

This mine is located at Cleaton on O. & N. division of the L. & N. R. R.

Officers: J. W. Bastin, R. S. Lytle, Sec., J. P. Cox, Treas. and Gen. Mgr., J. P. Cox, Supt.; H. Sudworth, Mine Foreman, M. C. Napier, Electrician.

This mine is working the No. 9 Seam, is mined by electric machines the coal is hauled by electric motors. Five Goodman

short wall machines, one Goodman breast machine, coal 5 foot, 8 inch high, good grey slate roof frame tipples, shaft 70 feet deep working the double and cross entry system.

One 26x30 Norwalk compressor, one 125 K. W. 250V Ryan Thompson Generator Ridgeway engine, one 6 foot Jeffrey fan, run by steam one 10x16 hoisting engine, two 8 ton Jeffrey motors, shaker screens and self dumping cages. Capacity 1000 ton per day.

(Inspected Aug. 18th.)

Sufficient ventilation entering mine but very weak on 10th, and 11th, north 12th, north and 12th, south, due to leaky brattices. Put passage way around shaft. Put gates at top of shaft. Put chains on cage for passengers to hold. Place curtain at last switch on 11th, north. Shield trolley wire at side track. Take out broken timbers on main haulage way. Keep mine foremans record books as prescribed by law. Furnish mine foreman with Anemometer, as prescribed by law. Ventilation, timbering and drainage satisfactory.

W. G. DUNCAN COAL CO., General Office, Greenville Ky.

Mine Office, Graham, Ky., Postal Telegraph, Greenville.

Express Office, Greenville, Luzerne, and Graham, Ky.

Graham mine located on I. C. R. R. 14 miles from Central City. Drift mine working No. 9 Seam, 4 foot 10 inches thick, with good slate top.

This company was organized in 1900 and begun operation at Luzerne in the summer of that year. have operated the mine continuously since that date, have added materially to the acreage owned at the time of beginning operation. The Graham mine was not opened until the year 1903, and has been in constant operation since. The two properties are both situated on the Illinois Central Railroad they are five miles apart on that line, the property lines join and really lie in one solid block. Production has grown from a small tonnage produced in the year 1901 at Luzerne mines to an easy output of 4500 tons daily at the two mines. Have tipples and screening equipment to handle even a larger tonnage than this, and the matter of

output is limited, you might say, to the actual needs of the trade they can easily handle 5,000 tons over present equipment.

Officers: W. G. Duncan, Pres., C. W. Taylor, V. Pres. & Gen. Mgr., A. W. Duncan, Sec. & Treas., W. G. Duncan, Jr., Supt., D. W. Christian, Chief Electrician, R. M. Woodson, Mining Engineer

Strikes: From Sept. 9th, to Oct. 4th, for increase wages.

Equipment: 12 Sullivan short wall mining machines, 2 ten ton General Electric locomotives, 3 ten ton Jeffrey locomotives, 3, 550 H. P. boilers Sterling, 1, 1000 K. W. Westinghouse generator and turbine, 1, 2000 K. W. General Electric generator and turbine, 2 Marcus screens capacity 3000 tons.

Foreman, Arch Pollock, Electrician, Clarence Wilkins.

(Inspected Dec. 6th, 1920.)

Ventilation, drainage and timbering satisfactory in every way, some dust on 8th east entry, Skibo side, which they ask to remove same at once they assured me they would remove at once, I have met with the very best of cooperation from this company for which I wish to thank them.

GREENVILLE COAL CO., Powderly Mine, Greenville, Ky.

This mine was opened and started operation in March, 1906, having abandoned the old Powderly mine in the year of 1906.

Officials: W. A. Wickliff, Pres., C. E. Martin, V. Pres., C. M. Martin, Vice Pres. & Gen. Mgr., M. L. Wickliff, Sec. & Treas.

This mine is located 5 miles south of Central City on I. C. R. R., working No. 9 Seam, average 5 foot, no parting in the coal. Black slate top grades of coal as a rule Lump, Nut and Slack as well as Mine Run.

Equipment: Seven Sullivan short wall machines, and two Jeffrey breast machines, one 13 ton Jeffrey locomotive and one 10 ton General Electric locomotive.

Operating two 200 H. P. return tudular boilers and expect to install one more 200 H. P. boiler in the early spring. Operating one 330 K. W. A. C. Westinghouse generator direct connected to a Buckeye engine and are driving a 150 K. W. motor generator set producing D. C. current. Intending to install

another 150 K. W. D. C. generator for helping out the motor load.

Hoisting is done with an Automatic Otis Engine. Are using Allen & Garcia pendulum swung screens with picking tables.

All coal is hand picked.

This is a shaft of 30 feet for hoisting and slope for men and animals travel way, which was formerly used for hoisting later shaft put down for this purpose.

Frame tippie, screens and loading boom and picking table designed by Allen and Garcia Co. Two Wolf safety lamps, two first aid outfits kept in power house.

(Inspected Sept. 11th.)

Ventilation, drainage and machinery, satisfactory, mine satisfactory in every particular.

Supt. C. M. Martin, Greenville, Ky., Mine Foreman, Herbert Myers, Powderly, Ky.

ACCIDENTS OF POWDERLY MINE, IN 1920.

Minor: Claude Jernigan injured on Dec. 10th, was hauling water, foot slipped and falling in front of water box wrenching his knee, length of disability 6 weeks.

Dewey Brown, injured on Dec. 17th, driving car running over his foot breaking one or two bones in his foot. Length of disability 6 or 8 weeks.

Anthony Hightower, injured on Oct. 19th, leg broken by car running over it. He was a coal loader and in taking the car into his room was in front of the car, could not hold it on the grade it ran over him breaking his leg, he will possibly be out 3 or 4 months.

GREENVILLE COAL CO., Martwick Mine, Greenville, Ky.

W. A. Wickliff, Pres., C. E. Martin, V. Pres., C. M. Martin, V. Pres. & Gen. Mgr., M. L. Wickliff, Sec. & Treas.

Head office, Greenville, Ky., Mine Post Office, Martwick, Ky., Telegraph office, Greenville, Express Office, Central City, Ky.

Mine is located on I. C. R. R. U miles east of Central City. Capacity 1100 ton per day, working No. 9 coal 4 foot 6 inches thick no parting, black slate roof.

Equipment: 9 Jeffrey mining machines breast and one Jeffrey long wall machine, 1 ten ton General Electric locomotive, one 200 H. P. return tubular boiler, 2, 150 H. P. return tubular boilers, manufactured by Houston Stanwood & Gamble, operating one 250 K. W. 250 Volt, Western Electric generator direct to Harrisberg Fleming four valve engine, Crawford & McCrimmon 18x36 hoisting engine, Marcus horizontal screen loading boom all coal is hand picked,

Mine Foreman, A. J. Mercer, of Martwick, Ky., Electrician, C. C. Coots, of Central City, Ky., Supt. Gen. Mgr., C. M. Martin, Greenville, Ky.

(Inspected Sept. 13th, 1920.)

Sufficient air entering mine but not reaching working faces as it should, no reading at several points.

Guard trolley wire at bottom of shaft empty track on east side and mouth of 5th, north entry.

Put chains on cages for passengers to hold, rework brattices so reading may be had at all points.

Timbering, drainage, and machinery satisfactory.

Fatal Accident: Tom Hudson, injured on Aug. 11th, by falling in front of a railroad car that he was lowering from the tippie scales, no one saw the accident but it was supposed that the brake stick slipped or broke and he fell in front of the car, and the truck caught his body doubling him up and crushing him so badly that he died in two or three days after he was taken to the hospital in Louisville.

HOLT BROS. MINING CO., Central City, Ky.

Mine Post Office, McHenry, Ky., General Office, Central City, Ky., Express Office, McHenry, Ky.

Officers: B. B. Holt, Pres., E. W. Holt, Sec. & Treas., E. W. Holt, Supt.; Edd Guynn, Mine Foreman; Phillipp Sheridan, Electrician.

This mine is located on I. C. R. R. 16 miles east of Central City, in Ohio County, working the No. 9 Seam slope mine, worked on the three entry system on main and double on the cross entries.

Coal 4 foot 6 inches thick has a good shale roof and hard clay floor, recently purchased by the Holt Bros. Mining Co. from the McHenry Coal Co.

Equipment: One electric hoist for hoisting coal out of the slope, 2 Sullivan short wall and 1 Goodman breast machine, this has been a solid shooting mine till purchased by the present owners who have recently installed machines.

One 10 ton Jeffrey and 1, 6 ton Goodman locomotive, one 150 K. W. generator belted to McEwen engine, shaker screens, daily output 900 tons.

(Inspected Aug. 16th.)

No reading at 5th and 6th entries, sufficient air entering mine but not reaching working places.

Put new ladder in escape shaft guard trolley wire at the bottom of slope 1st east and 4th east, 3rd west and 1st south entries.

Timbering, drainage and machinery satisfactory.

LIBERTY COAL CO., Hillside, Ky.

Head Office, Memphis, Tenn., Express Office, Central City, Ky.

Officers: F. M. McDonald, Pres., J. A. McDonald, Sec. & Gen. Mgr., E. O. Hall, Supt., O. L. Bullock, Mine Foreman.

This mine is located 5 miles south of Central City, on I. C. R. R., working No. 9 Seam, 4 foot 8 inches thick, shaft 73 foot deep double entry system has a good shale roof and hard clay floor.

Equipment: 100 K. W. Morgan Gardner generator, one 150 H. P. Skinner engine 16x32 Crawford McCrimmon hoisting engines, 2, 150 H. P. boilers, 4 D type Morgan and Gardner breast machines, 2 Goodman shortwall mining machines, 1, 8 ton haulage motor, self dumping cages, shaker screens, capacity 550 tons per day.

(Inspected Aug. 26th.)

Ventilation in this mine is very unsatisfactory at this time, renew safeties on cages, move trolley wire near bottom of shaft, it is too close to track. Guard trolley wire at 4th, west entry, place curtain No. 26 room 3rd and 4th east entries, two open

cross cuts on 1st and 3rd west entries, only one reading could be had in the mine. This ventilation must be restored at once. Timbering, drainage and machinery satisfactory.

KIRK COAL CO., Beech Creek, Ky.

Express Office, Browder, Ky.

Officials: L. Z. Kirkpatrick, Pres. Greenville, H. L. Kirkpatrick, V. Pres., C. Kirkpatrick, Gen. Mgr., Morton Jones, Sec., W. L. Russell, Mine Foreman & Supt., Beech Creek.

This mine is located on the O. N. Div., of the L. & N. R. R., Beech Creek branch, 12 miles from Central City. Working the No. 9 Seam, 5 foot 8 inches high. Good hard black roof of slate. This mine was opened and put in operation by Messrs. John and Chas. Hendrie, in 1911. The former was a mine operator in Scotland before he became interested in this mine and died before the mine was fully developed. Mr. Chas. Hendrie was a practical mine operator of this field and under his supervision the mine was developed. At the death of Mr. John Hendrie the mine ceased to be operated and the property reverted to the lessors, Beech Creek Coal Co.

In 1914 the Kirk Coal Co., acquired the property, installing the new tipple and buildings, modern mining machinery and equipment to facilitate production of coal.

In 1917 the Kirk Coal Co., opened on the west end of the property their No. 2 mine, Mr. W. L. Russell, Supt., having charge of the development, this mine is a drift mine as is the No. 1 mine and both are opened on the same level.

Equipment: Operating 4 Morgan Gardner milling machines breast type, 1 Jeffrey electric breast machine, 1 Sullivan long wall electric machine, 1 ten ton single type Goodman locomotive, 1 eight ton single type Goodman locomotive, purchase electric power, no boilers, electric shaker screens, daily output 900 tons.

Supt. W. L. Russell, Mine Foreman, Same Beech Creek, Ky., Electrician, R. D. McKie.

(Inspected Oct. 26th.)

Continue to clean main entry, provide refuge holes, ventilation, timbering, drainage and machinery satisfactory.

OAKLAND COAL CO., Greenville, Ky.

Officials: Wm. Martin, Pres., C. S. Curd, Sec. & Treas.

This is a drift mine located on the I. C. R. R., 5 miles south of Central City, Ky. Located 2 miles north of old Oakland mine, working No. 9 coal, 5 foot thick. Has good shale roof and hard clay floor. Dips about $1\frac{1}{2}\%$ N. W.

Mine Equipment: 4 Morgan and Gardner breast machines, power for the machines and motor furnished from the old Oakland mine.

Ventilated by electric fan capacity 450 tons per day. The coal is hauled by motor from the mine to the R. R. tippie.

OAKLAND MINE.

(Inspected Aug. 8th, 1920.)

I found your fan in very bad condition, wasting air at the bottom and at the sides, sufficient air was entering mine but could not get reading at third west heading due to leaky brattices.

No air and mine foreman records have been kept for past several months. No first aid outfit, or stretchers, which must be supplied at once. Timbering, drainage and machinery satisfactory.

NELSON CREEK COAL CO., Nelson, Ky.

Officers: R. S. Lytle, Pres., J. W. Bastin, Sec. & Treas., Gen. Mgr. Head Office, Nelson, Ky., Post Office, Nelson, Ky., Telegraph Office, Central City, Ky., Express Office, Central City, Ky.

This mine is located on the I. C. R. R., 5 miles east of Central City, shaft mine 180 feet deep, working No. 9 coal 54 inches thick, has a very poor shale roof, hard clay floor, worked on the three entry system main entries, double entry on cross entries, dips 1% south west.

Equipment: One Norwalk compressor 28x30, one 16x32 Crawford & McCrimmon hoisting engine, two 150 H. P. boilers, 12 foot Crawford & McCrimmon fan, 3 Goodman shortwall machines, self dumping cages and shaker screens, haulage all mule power.

NELSON MINE

(Inspected Sept. 14th, 1920.)

Sufficient air entering mine but not reaching headings as it should, rework all brattices so to conduct air to all headings and to head of first and second west entries.

Renew curtains all over mine, keep mine foreman record as prescribed by law. Timbering, drainage and machinery satisfactory.

LOCAL MINES.

CESNA COAL CO., Cesna Mine, Greenville, Ky.

Located near Powderly, Ky., working No. 9 coal for local business, coal 5 foot thick, good slate roof, coal of fine quality.

(Inspected Sept. 16th, 1920.)

No air entering mine whatever.

You are given 20 days to clean airway to shaft bottom and erect furnace to ventilate mine. Move mud from main entry.

(Inspected Oct. 5th, 1920.)

This mine is satisfactory in every way this time.

GREENVILLE FUEL CO.

E. W. McDonald, Operator.

Located 2 miles east of Greenville local business only working No. 9, coal 5 foot thick, good roof of black slate.

(Inspected Oct. 4th, 1920.)

No air entering this mine, build furnace to give mine sufficient ventilation. Move powder house from mouth of mines to 500 feet away.

Ten days to get furnace ready for use.

WELLS AND LOVELL MINES.

Local business only.

Located one mile west of Greenville, working No. 9 coal 5 foot thick, good slate roof.

(Inspected Oct. 7th, 1920.)

No air entering mine, build furnace to give mine sufficient air, strip stack to make draft greater, ten days to get furnace in readiness. Timbering, drainage and machinery satisfactory.

DARTY MINE, H. M. Maddox, Operator.

Local business only.

(Inspected Sept. 16th, 1920.)

Sink air shaft, build furnace to ventilate mine 20 days to comply.

SAULSBERG COAL CO., Hillside, Ky.

P. O. Hillside, Frankel Coal Co., owners, Louisville, Ky.

This is a shaft mine 48 foot deep, located on the I. C. R. R., 8 miles south of Central City, Ky.

Working No. 9 coal 5 foot thick has good shale roof and hard clay bottom coal shot from the solid operated with mule power, has one second motion hoisting engine and small fan, one 80 H. P. boiler. Capacity 150 tons per day.

(Inspected Sept. 10th, 1920.)

Put new cages on, put new guides in shaft, build brattices from shaft bottom to first entry on air.

Remove all mud and debris from main hallway, put gates at top of shaft. Clean main way to second outlet overhaul ladder in escape shaft.

You are given twenty days to meet these requirements.

(Inspected Sept. 28th, 1920.)

I am pleased to note the improvements in condition of this mine since my last inspection of Sept. the tenth.

Continue to work as outlined in last report. You are given fifteen more days to complete work as outlined.

(Inspected Nov. 24th, 1920.)

Can not get to bottom of escape shaft yet. Move all debris from passage way to escape shaft. Put new ladder in shaft, mine is much improved since last inspection.

Ventilation, drainage and timbering satisfactory.

(Inspected Dec. 2nd, 1920.)

Can't get out escape shaft yet. Clean passageway from main entry to escape shaft, put in new ladder, change air out on main entry as soon as it can be done.

This is second and last notice to get this escape shaft in lawful condition or be closed down till it is done.

WICKLIFF & CONNOR COAL CO., Hillside, Ky.

Officials: Robt. Wickliff, Pres. Chas. Wickliff, V. Pres. O. C. Connor, Sec. & Gen. Mgr.

This is a drift mine located three miles south of Central City, on I. C. R. R., working No. 11 coal 6 foot thick with lime stone roof and hard clay floor.

Equipment: One 75 H. P. upright boiler and 50 H. P. friction hoist for elevating coal from mine mouth to tippie capacity 100 ton per day.

Cleve Miller, Mine Foreman.

(Inspected Aug. 12th, 1920.)

No air entering mine whatever, no reading at any point. You must build furnace or install fan at once. Renew curtains on main entry. Build new brattice between main entry and furnace. Get anemometer, stretchers, and first aid outfit, strip smoke stack at air shaft to increase draft, machinery, drainage, satisfactory.

(Inspected Aug. 26th, 1920.)

This is my second visit to this mine this month to see if this company had complied with my request of furnace in my last report, of Aug. 12th, I found furnace built giving this mine abundance of air. Ventilation, drainage and machinery satisfactory. Furnish mine foreman with Anemometer.

(Inspected Dec. 2, 1920.)

Air very weak on north side, renew all curtains and rework brattices on main entry.

JOURDAIN COAL CO., Ryan Mine, Central City, Ky.

B. C. Jourdain, Operator.

This is a shaft mine located in the city limits of Central City. Shaft 65 feet deep, working No. 11 coal 4 foot 6 inches high lime stone roof and hard clay floor, doing local business only.

(Inspected Oct. 28th, 1920.)

Drainage, ventilation and machinery satisfactory.

J. M. THOMPSON COAL CO., Drakesboro.

J. M. Thompson, owner and operator.

This is a shaft mine 96 feet deep, working No. 9 coal, 5 foot

4 inches high, has a good shale roof and hard clay floor, working on the double entry system, dips about 2% S. W. Located 6 miles south of Central City on O. & N. R. R.

Mine Equipment: Two 150 H. P. boilers, one 100 K. W. 250V, Morgan Gardner generator, one 150 H. P. engine, one 15x30 Crawford McCrimmon hoisting engine, one 14 foot, Crawford & McCrimmon fan and 6 Morgan Gardner electric chain breast machines, self dumping cages, shaker screens, Capacity about 500 ton per day.

(Inspected Nov. 8th, 1920.)

No air at any point, 5 open crosscuts, 6 north, entry, 4 open on 5th, east entry.

Air-way must be opened at once and brattice line on main be overhauled clean and provide refuge holes on main haul-way. Open manway to air shaft, install new ladder in escape shaft. Put trolley guards at points shown foreman.

HAYDEN COAL CO., Mercer, Ky.

Lucian Hayden, Owner and Operator.

This is a slope mine located three miles south of Central City on I. C. R. R., working No. 11, coal 6 foot thick with lime stone roof and soft clay floor.

Equipment: One Sullivan short-wall mining machine, and friction electric hoist, getting power from the Pacific Coal Co.

(Inspected Aug. 12th, 1920.)

Ventilation entering this mine insufficient. No reading at 1st, south heading, no reading main west heading, no reading 1st, north heading. Put stair-way in escape shaft, keep mine records as prescribed by law. No stretchers which must be furnished at once.

Drainage and machinery satisfactory.

(Inspected Dec. 2, 1920.)

Since my inspection of Aug. 12, this company has installed fan giving mine sufficient ventilation.

Ventilation, drainage and machinery satisfactory.

GREEN RIVER COAL CO., Mogg, Ky.

Located on the Owensboro and Nashville division of the

L. & N. R. R. five and one-half miles north of Central City, the "Green River" Mine of the Green River Col. Co., an Indiana Corporation, has shown rapid progress in the past six months and it can now be safely predicted that the much talked of Number Fourteen Vein Coal of Muhlenberg County will soon be produced in quantities sufficient to permit of wider distribution than before.

The history surrounding the development of this particular seam in the County mentioned clearly indicates that the work has been one of the most trying nature and many have been those whose Number includes even experience, mine Managers who have openly stated that the vein could not be worked profitably. But in the face of all such dire predictions there does not seem to have been a time in the past thirty or thirty-five years when some kind of an effort was not being made to solve the intricacies of mining as they apply to No. 14 Seam.

That there has been a continuous endeavor these many years is not without its good reasons. Principal among which are:

1. The abundance of coal veins which underly this particular area.
2. The advantageous location with respect to both water and rail transportation.
3. The high quality of No. 14 vein of coal, and its nearness of its vertical position to the surface.
4. The absence of Gas and Dust, and the presence of a very small amount of water.

Undoubtedly the pressure of these and many other logical arguments moved W. P. Robinson, of Morman, Ky., to devote much of his time and finance toward developing this particular part of the west Ky. Field. It was about the year of 1900 that this man organized the W. P. Robinson Developing Co., which had its first drillings made near Morman, Ky., and as anticipated they found coal and plenty of it, of this they were most reasonably sure since it was a known fact that the old Rothrock shaft on Green River near Morman had previously operated in No. 14 Seam for several years, and was only forced to be abandoned when lockage charges on the river became

too high after the locks had been temporarily disposed of by the Government, but that particular phase is a history in itself and I shall pass over it lightly.

The Robinson Organization continued its efforts by commencing sinking a shaft about 1904 at what is now known as Mogg, Ky. Location of the Green River Mine which shaft was developed in 1906 at a time when the country was in the throes of a financial panic, this hole was driven through No. 14 vein into what is now known as the No. 11. Thus indicating the true values of coal lands in this particular district, from the standpoint of Volume, in fact drillings indicate that at least nine distinct veins underly this territory, known as in the order from top Nos., 15, 14, 13, 12, 11, 10, 9, 8, and 7 ranging in thickness from 2 feet to 7 feet 2 inches.

Emerging from the effects of this financial panic a Claud Nicholls took up the burden of leadership laid down by Mr. Robinson, who was called by death and in a manner most worthy of his predecessors and father-in-law. Nicholls worked untiringly to interest the people of financial magnitude and coal mining experience in preference to he and his associates with limited means developing a proposition that called for an undertaking on the largest kind of a scale.

The record of events recount many interesting experiences and nearly closed deals such as only Wallingfords dream about, but there was one in particular the nature of which clearly indicates that dame fortune was truly arrayed for a time at least against the progress of this undertaking after many meetings of a preliminary nature with Philadelphia interest during 1912 and 1913. Nicholls had positively closed a deal of sufficient size to rate this among the best of the best and sending a mining expert West to make their final investigation, a man said to be of marked ability and one whom Eastern people relied on completely, it was only to culminate in the sudden death of this expert while enroute to Philadelphia on his return. The demise resulted in the entire cancelation of the deal.

In the face of these discouraging events the local parties retained undaunted courage in ultimate success and this was

due in a measure to almost daily inquiries concerning the Property.

It was in 1917 that one named Millard E. Mogg, whom the mining town is named after, both as a railroad station and Post Office, became interested but it was not until April 16th, 1918, that a deal was closed which finally called for the transfer of some 3000 acres of coal land in which it might be said there is sufficient coal to run a 1000 tons per day mine almost interminably work commence immediately in charge of H. B. Mitchel, who erected a temporary Tipple over the Robinson Shaft from which the coal was hoisted in the fall of 1918.

Thus at last the hoisting of coal became an assured fact, but the Green River people had greater accomplishments in view for they commenced sinking about the same time a shaft over which now stands a tipple designed for 5000 ton daily production, and other facilities or designing in proportion such as the power plant now consisting of two 150 H. P. return tubular boilers, one 200 K. W. Generator, one Crawford McCrimmon 500 H. P. Hoisting Engine. The tipple which makes an imposing appearance as one passes by in the train is equipped with Electrically driven Link Belt Shaker Screens and there are six such Goodman Short wall Machines, and two Goodman combination trolley and storage battery Locomotives, on top the operation is well provided with Railroad trackage shop, supply and Office building, all of a substantial nature there are also sufficient residences for the present force employed at the Mine.

It does not seem as though the Green River people were immune from the difficulties which have accompanied the previous undertakings, however the obstacles they have met are of an altogether different nature. Their drilling gave evidence of a solid rock roof which naturally encouraged them to plan the underground development on a most modern scale in order to produce an exceedingly large capacity, however it was soon learned that the solid roof was not in evidence and this disappointment along with difficulties from the war caused a check to

the enterprise simply for lack of a plan to successfully meet the new conditions confronting them.

H. M. Stewart, of Sullivan, Ind., a Mine Superintendent of experience retained as a General Superintendent to act in an advisory capacity, finally uncovered in the Southern Illinois field Fred E. Roland, who came to Mogg, during July, 1920, in the capacity of Superintendent, as a man especially qualified in combating bad roof conditions. In his short sojourn to date, Mr. Roland has completely revived all enthusiasm by his scholarly, modern and effective methods, of not only timbering the roof, but mine operation in general. It seems, though this man had been reared in Kentucky, left this State to learn Coal Mining as it is done on a truly large scale, and now returns to this Mine.

From a capacity of one hundred and fifty tons last July, "Green River" has risen to in excess of five hundred in less than six months and its future march forward is being watched with interest. The shaft bottom will be equipped with Automatic Cagers and Car Lift and is a veritable factory by reason of its height and spaciousness in fact it is planned in harmony with the tippie capacity.

Entries are ten and twelve feet wide timbering to the slate and as the vein is seven feet thick the height permits of exceedingly fast and economical operation by reason of large cars in use.

The underground development system being pursued is one of the quickest known and it will not be long before the output of this mine will not be limited by reason of a lack of working places below for loaders.

The mine is thoroughly ventilated by a recently installed 16 foot Fan, using the Old Robinson Shaft for the purpose.

As yet the Green River Collieries Co. has made no effort to dispose of its coal commercially, nor has it inquired into its adaptability, but on that score they are so sanguine in their convictions that only the operating features need be perfected.

Mr. Edward D. Evans, Indianapolis, Pres.; Fred E. Roland,

Mogg, Supt.; G. R. Venerable, Mogg, Mine Foreman, W. B. Frost, Mogg, Electrician; H. C. Kyler, Mogg, Master Mechanic.

(Inspected August 24th.)

At this time ventilation very bad, build brattice 1st, South blind clean up falls in main airway, put door at first 45 off of bottom. Furnish Foreman with Anamometer. No passage way around shaft. Put chains on cages for passengers to hold. Put gates around top of shaft. Install speaking tube from bottom of shaft to Engineer.

(Inspected December 15th.)

Too much air entering this mine at this time, reduce Fan to 45 R. P. M. This mine satisfactory at this time in every particular.

KENTUCKY BLACK DIAMOND COAL CO., Hawesville, Ky.

Miss Geneive Duncan, Owner and Operator.

This is a local mine coal hauled in wagons. Located four miles south of Hawesville, working 6 to 12 men, coal 4 feet 6 inches thick, hard slate roof and hard clay floor. Drift mine, no machinery, coal shot from the solid.

(Inspected November 17th, 1920.)

Not sufficient ventilation open up bottom of air shaft, build furnace. Build brattice line from air shaft to head of main entry to ventilate. Build trap door across main entry at air shaft.

Ten days to get air in this mine.

M. E. DEVINE COAL CO., Hawesville, Ky.

M. E. Devine, owner and operator.

Local mine only working 8 to 12 men, coal 4 feet 6 inches thick with hard slate roof and hard clay floor. This is a drift mine shooting from the solid coal is hauled to town in wagons and trucks.

(Inspected November 17th, 1920.)

Timbering, Drainage and Ventilation, Satisfactory.

TRUMBO COAL CO., Hawesville, Ky.

J. W. Trumbo, owner and operator.

Located five miles from Hawesville, working from 7 to 12 men, coal 4 feet 6 inches thick, hard slate roof and hard clay roof. Local mine only, no machinery, coal shoot from solid.

(Inspected November 17th, 1920.)

No air shaft at this mine, sink air shaft at once. Timbering, Drainage, Satisfactory.

Twenty days given to get air shaft down.

BOOTH COAL CO., Hawesville, Ky.

J. S. Booth, Owner and Operator.

Located four miles from Hawesville, local business only, working 6 to 10 men, coal 4 feet 6 inches thick, hard slate roof and hard clay floor.

No machinery, coal is shot from solid.

(Inspected November 17th, 1920.)

Ventilation, Drainage and Timbering, Satisfactory.

NEWMAN COAL CO., Hawesville, Ky.

Geo. Newman, Owner and Operator.

This is a drift mine, local business, working 8 to 15 men, coal 4 feet 6 inches hard slate roof and hard clay floor, no machinery, coal is shot from solid, mule haulage to outside of mine.

(Inspected November 18th, 1920.)

Timbering, Drainage and Ventilation, Satisfactory.

HENERETTA COAL CO., Hawesville, Ky.

This is a drift mine, R. R. transportation, L. H. & St. L., this mine was not operating at this time.

No inspection this visit. Closed down for past several weeks.

WHITE COAL MINING CO., Island, Ky.

Transportation, O. & N. Division, L. & N. R. R.

Officers: A. C. Lackey, Owner and Operator; W. H. Hill, Gen. Mgr.; Geo. Sears, Mine Foreman.

This is a shaft mine 60 feet deep No. 9 coal 4 feet 8 inches thick. Twelve miles north of Central City.

Equipment: This is a solid shooting mine, 3—150 H. P. Boilers; 125 H. P. Crawford & McCrimmon Hoisting Engine; Stationary bar screens; 450 tons per day. Steam haulage inside the mine, also mule haulage.

(Inspected October 6th, 1920.)

Men hoisting signal not complied with. Air not sufficient. Overhaul brattices so as to get reading on Main South and Main West.

Machinery, Drainage and Timbering, Satisfactory.

E. M. T. COAL CO., Island, Ky.

Officials: D. C. Edwards, Pres.; L. B. McHargue, Sect. and Genrl. Mgr.

This mine is located 11 miles North of Central City on O. & N. division of the L. & N. Railroad.

Working No. 9 Seam 4 feet 4 inches with Excellent Slate roof and hard clay floor. This mine is shot on solid.

Equipment: 3 125 H. P. Boilers each; 1 Prox and Brinkman Hoisting Engine; Shaker Screens Daily output 500 tons.

L. B. McHargue, Supt.; John O'Neal, Mine Foreman.

(Inspected August 10th, 1920.)

Ventilation, Ropes, Cages and machinery satisfactory. Escape way in no way complies with the Law. The second outlet is through the old abandoned mine of the old Green River Coal Co. It is almost impossible to get through this way must be put in shape at once. Put steel ladder in shaft at once, open up passage way to second outlet so as to comply with requirements of the Law.

(Inspected August 14th, 1920.)

I reinspected this mine on this date to see what had been done since my last visit on the 10th. Relative to opening up the passage way to second outlet, and installing new ladder in the escape shaft. I find conditions of this mine much improved. Continue to work on passage way to second outlet. Put steel ladder in shaft as soon as it arrives.

Ventilation, Drainage and Machinery Very Satisfactory.

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DAVIS COAL CO., Island, Ky.**Bob Davis, owner and operator.**

This is a drift mine doing local business only, located three miles west of Island, working 5 to 8 men. Working No. 9 coal 4 feet 6 inches thick, good slate roof and soft fire clay bottom. Coal shot from solid, no machinery, mule haulage.

(Inspected September 20th, 1920.)

No air entering mine. Erect furnace to ventilate. Open bottom of air shaft.

Timbering and Drainage, Satisfactory.

BOWMAN COAL CO., Island, Ky.**J. C. Bowman, Owner and Operator.**

This is a drift mine doing local business only, located 4 miles west of Island, working 3 to 6 men. No. 9 coal 4 feet 8 inches thick, fairly good roof and soft clay floor. Coal shot from solid, no machinery, mule haulage.

(Inspected September 21st, 1920.)

No air entering mine whatever. Build furnace to ventilate mine, move all mud from passage ways. Timbering Satisfactory.

J. W. WOOD COAL CO., Island, Ky.**J. W. Wood, Operator.**

This is a drift mine working 8 to 10 men, doing local business only. Located 5 miles from Island west, working No. 9 coal, 5 feet thick, good slate roof and hard clay floor.

(Inspected September 22, 1920.)

Ventilation, Timbering and Drainage, Satisfactory.

ROCKPORT COAL CO., Central City, Ky.

Officials: H. L. Tucker, Pres.; R. C. Reed, V. Pres.; Jno. T. May, Secy. & Treas.; J. L. Jenkins, Mine Foreman; R. C. Herron, Electrician.

Mine No. 1: Located on the I. C. R. R. Nine miles east of Central City. Working No. 9 coal 4 feet 6 inches thick, no partings, good top.

Equipment: Two Goodman and 7 Morgan Gardner Machines; Two 5 ton Morgan Gardner Locomotives; 3—150 H. P.

Vogt Boilers; 1—100 K. W. Morgan and Gardner and 1—175 K. W. General Electric Generators; 16x32 Crawford & McCrimmon Hoisting Engines, Shaker Screens made by Hanna, of Earlington, Ky. Daily output 800 tons. First aid outfit kept in supply room near shaft.

Shaft, 120 feet size 10x17 wood lined cast steel 1½ rope Eagle claw Safety catches. Friction Foot brake.

ROCKPORT MINE.

Inspected September 2, 1920.

All curtains in very bad shape, need renewing all over the mine, replace trolley hangers along the main entry. Keep Mine Foreman's record as required by Law of Ventilation, Drainage and Timbering, Satisfactory.

ROCKPORT COAL CO.

Mine No. 2, General Office, Central City.

Centertown, Ky., Officials same as No. 1 Mine.

Equipment: This is a shaft mine 127 feet deep working No. 9 coal, 4 feet 4 inches thick slate top, making only mine run coal at present. Located on L. & N. R. R., 14 miles east of Central City. Using 4 Sullivan and 2 Goodman Machines; 2 five ton Ironton Storage battery Locomotives; 2—150 H. P. Vogt Boilers; 1—150 K. W. General Electric Generator; 16x32 Crawford & McCrimmon Hoisting Engines; Installing Shakers and Picking tables, this mine is only in the developing stage at present has an output of 200 ton.

Claud Chapman, Mine Foreman, O. L. Ross, Electrician.

CENTER TOWN MINE.

Inspected December 3rd, 1920.

Install speaking tube from bottom of shaft to Eng. room. Place check curtain at No. 6 Room 3 & 4 North, Entry. Clean airway from N, Overcast to N, Door, Reduce air on West side by building regulator.

Ventilation, Drainage and Timbering, Satisfactory.

KY. COKE CO., Echols, Ky.

Officials: A. W. Lee, Gen. Mgr., Louisville, Ky.; W. E. Hicks, Supt., Echols, Ky.; Luther Griffith, Mine Foreman, Echols, Ky.; J. T. Burgher, Electrician, Echols, Ky.

Echols Mine was opened in 1874, which probably is the oldest mine in Western Ky. Several different Companies have operated it, among same was T. C. Dupont.

The Ky. Coke Company took charge of this Mine July 1st, 1918, and spent several Thousand Dollars improving it in order to increase the output, which they did, increasing it from 350 tons to 650 tons per day. In June, 1921, the entire plant was destroyed by fire, but the company did as they do everything else, got busy and put the Mine in Operation on temporary scale in a very short time, in fact, they were running coal after the fire much sooner than anyone expected.

The plant burned on June 16th, and the Mine was running coal June 26th, which is a record breaker for Western Ky.

They are now making a new opening into some new territory which will be a drift coming out on about 2% grade, which then will put this Mine on a tonnage basis of the average Mine in Western Ky.

This mine is located on the I. C. R. R. 11 miles east of Central City, working No. 9 Seam, average thickness of 4 feet 8 inches, comparatively free of impurities, no parting, hard slate roof, hard fire clay bottom.

Shaft, of 80 feet size 8x16 wood lined 1 1/8 inch stranded steel rope rated breaking strength 50,000 lbs.

Equipment: This mine is shot from the solid two haulage Locomotives, one Westinghouse and one Jeffrey, 6 ton and 13 ton respectively.

One 250 Volt D. C. Willey Generator, One 80,000 cu. ft. ventilating Fan.

Power plant consists of 1—75 K. W. direct connection set for 100 lbs. steam pressure, and one 100 K. W. belt driven set, both 250 volt D. C. Six Walton and Ironton boilers of 125 H. P. each, temporary bar screens, several new buildings under construction among which is a modern power house and several new dwellings.

(Inspected September 7th, 1920.)

Post signal code at bottom of shaft and top of shaft. Keep Mine Foreman record book as prescribed by Law. Place curtain at room 16 main east entry and blind. Put safeties on cage at once. Place gates at top of shaft. Ventilation, Drainage, Machinery and Timbering, Satisfactory.

BROADWAY COAL MINING CO., Simmons, Ky.

Officials: W. W. Simmons, Pres.; Alex Allison, V. Pres.; E. B. White, Secty. & Treas.; Geo. W. Burton, Genrl. Mgr.; L. D. Gandy, Mine Supt. Head Office, 1216 Exchange Bldg., Memphis, Tenn.

This mine is located on I. C. R. R. 13 miles east of Central City. Working No. 9 Seam, output of 800 ton, 4 feet 8 inches to 5 feet, no parting, the roof overlying this seam is the usual black slate of excellent quality.

Make all grades of coal required by the trade.

Equipment: Three 150 H. P. tubular boilers; Crawford and McCrimmon Hoisting engines, Thompson Ryan Generator, 200 K. W. capacity, direct connected with McEwen engines; Six Continuous Sullivan Machines; 2 Single type Goodman Locomotives, Ten ton capacity.

This is a shaft mine of 50 feet to top of coal $1\frac{1}{8}$ rope for hoisting which is attached to two Holmes and Co. Cages of the automatic type containing all the latest type safety devices. Drum 5 feet made of steel with steel bored wood lined brake, dial indicator.

This mine was not inspected by me for lack of time.

BEAVER DAM COAL CO., McHenry, Ky.

Beaver Dam, Ky., Express Office; Post Office, McHenry, Ky.; Head Office, Louisville, Ky.

Transportation Louisville Div., I. C. R. R. located 15 miles from Central City, Ky.

Officers: W. S. Speed, Pres.; F. M. Sackett, V. Pres.; I. P. Bernard, Secty.; A. P. Bernard, Genrl. Mgr.; C. D. Majors, Treas.; B. F. Reed, Mgr. of sales.

Equipment: This is a machine mine operating 8 Sullivan C. E. 7 A. C. Machines; 1 10 ton General Electric Locomotive; 1—10 ton Westinghouse Locomotive; 2—10 ton Jeffrey Locomotives; 1—5 ton Jeffery Locomotive; 6 B. & W. Boilers, 150 H. P. each; 2 General Electric 100 K. W. D. C. Generators, direct connected to Ball Engine, on 100 K. W. and 1—75 K. W. 2300 Volt, A. C. Turbine General Electric Company's make, Otis Elevator twin engine steam hoist.

Williams Mine is equipped with Savage Shaker Screens, has a daily output of 1100 tons per day.

Richard Baker, Supt., Bayless Mine Foreman, Claud Myers, Electrician, Chas Watts, Asst. Genrl. Mgr.

Williams Mine is working the No. 9 Seam shaft 40 fee deep, coal 4 feet 6 inches has fairly good roof. Also slope for passage of men and animals only.

Have not visited this Mine due to lack of time.

Had the only strike the whole District has had from the 16th of September to the 4th of October, Wage dispute.

BEAVER DAM COAL CO., McHenry, Ky.

Beaver Dam Coal Co., McHenry, Express Office; McHenry, Post Office; Head Office, Louisville, Ky.

Taylor Mine, Transportation, Louisville Division, I. C. R. R.,

Officers: W. S. Speed, Pres.; F. M. Sackett, V. Pres.; I. P. Bernard, Secty.; A. P. Bernard, Genrl. Mgr.; C. D. Majors, Treas.; B. F. Reed, Mgr. of Sales; Richard Baker, Supt.; T. J. Barrass, Mine Foreman; Chas. Watts, Asst. Genrl. Mgr.

Taylor Mine was opened in 1875, it was purchased by the present owners as a very small mine, from the original owner one year later, 1876. At that time the output was about 100 tons per day, the I. C. R. R. was a narrow gauge road, the largest car for coal purpose was about 10 to 12 ton.

It has been in the owners hands as at present since that date.

This mine is located on the I. C. R. R. about 18 miles from Central City, working the No. 9 Seam of 58 inch heighth with good shale roof and hard clay bottom.

Equipment: 8 Sullivan C. E. 7 A. C. Machines, 2 ten ton General Electric Locomotives; 1—10 ton Westinghouse Locomotive; 2—10 ton Jefferys Locomotives; 4 B. & W. Boilers; 150 H. P. each; 2 General Electric 100 and 175 K. W. D. C. Generators, direct connected to Ball Engines; Otis Elevator Co., Twin Steam Hoisting Engines, Link Belt Shaker Screens; Daily output 1400 tons.

Ventilated by 2 eight foot Sullivan Fans, all pumps are run steam.

Have not visited this mine this year for lack of time, as I was appointed July 31st, 1920.

RENDER COAL CO., McHenry, Ky.

Transportation Louisville Div. I. C. Railroad.

Officers: Albert Early, Pres.; L. L. Stewart, Sec. and Treas. and Gen. Mgr.

This is a drift mine worked on the double entry system, No. 9 coal, 4 feet 6 inches thick, has a good shale roof and hard clay floor.

Mine Equipment: Two 80 H. P. Boilers: one 75 K. W. Generator, one 8 ton Electric Locomotive, output 459 tons per day.

(Inspected August 17th, 1920.)

Ventilation Satisfactory, Drainage very bad, Roads very muddy, Powder magazine too close to mine mouth. This must be moved to a point of 500 feet from mine, put ladder in escape shaft. Machinery and Timbering, Satisfactory.

CARNES AND COATS COAL CO., Beaver Dam, Ky.

Located 4 miles north of Beaver Dam on Louisville Div. of Ill. Central R. R. Carnes and Coats, Owners and Operators.

Working No. 9 Coal 4 feet 4 inches thick with soft sand stone roof and soft clay bottom, coal is shot from solid working 10 to 15 men.

Equipment: One gasoline motor conveying coal from mine mouth to tippie, a distance of 2200 feet. Output 50 tons per day.

(Inspected October 21st, 1920.)

Drainage, Timbering and Machinery, Satisfactory.

TICHONOR COAL CO., McHenry, Ky.

Organized in 1918, began the operation in 1919.

Officials: Alney Tichonor, Pres.; Everett Tichonor, V. Pres.; M. R. Tichonor, Sect. and Treas.; J. S. Ford, Mine Foreman.

This is a drift mine located on the M. H. & E. R. R. Fifteen miles north east of Central City. Working No. 9 coal seam 4 feet 4 inches thick, has good slate roof and hard clay floor, daily output 300 tons. No machinery solid mine.

(Inspected November 11th, 1920.)

Build tight door at furnace, renew all curtains. Timbering, Drainage and Ventilation Satisfactory.

BISHOP COAL CO., Centertown, Ky.

O. Bishop, Owner and Operator.

This is a drift mine located 15 miles North East of Central City on the M. H. & E. R. R. working No. 9 coal, 4 feet 4 inches thick, with good hard shale roof and hard clay floor.

No machinery coal is shot from the solid, daily output of 200 tons.

(Inspected November 12th, 1920.)

No Anemometer. No Stretchers. Furnish each, build door at furnace entrance. Ventilation, Drainage and Timbering, Satisfactory.

KIMBLEY COAL CO., Equality, Ky.

E. S. Randle, Pres.; Len Renolds, V. Pres.; Henry Chapman, Mine Foreman.

This is a drift mine, works No. 14 coal, with hard shale roof and hard clay floor, coal 6 feet thick.

Equipment: 150 H. P. Walton and 20 H. P. Walton Boiler; Marsh boiler feed pump, and Gardner Duplex pumps; One Norwalk air Compressor; One Atlas Stationary Engine; One Heilman Hoisting Engine; One set Link Belt Shaker Screens.

This mine is located 11 miles North East of Central City, on the H. M. & E. R. R. Coal is shot from the solid output of 300 tons per day.

(Inspected November 10th, 1920.)

No Anemometer. No Stretchers. Provide each at once.
Timbering, Drainage and Ventilation, Satisfactory.

Pineville, Ky.

March 10, 1921.

Hon. Lawson Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky.

Dear Sir:—

I have the honor to transmit herewith my annual report as Inspector of Mines for the Fourth Mining District of Kentucky, composed of Bell, Whitley and Knox Counties. I was appointed July 21, 1920 and began work on the 26th, 1920. I served on the Board of Examiners five days in December beginning on December 20th, was taken sick on November 15th and was disabled until 21st, off one week in October, on the 28th. Bell County has been redistricted and 20 of the Mines taken over by the Inspector of the 5th District. I have in my District 144 mines, these are tippie mines, all on the C. V. & Knoxville Division of the L. & N. R. R. It is impossible for me to make the inspections as required by law in the time given to cover my district, because of the number of operations I have in my district. I want to thank the operators of my district for their co-operation in my work as an inspector, also for the courtesy shown me during the time I have been on, I truly hope they shall continue that co-operation that means so much to coal industry in this State and to the Department of Mines. I have reported three fatalities to the department, while I do not say this number is correct for the year, I must say that the number is entirely too many, and I truly hope we may reduce this number, and we can only hope to do this by that co-operation with the Mining Department. Trusting this may meet with your approval I am,

Yours very truly,

R. D. COLLETT, Asst. Inspector of Mines.

List of mine in Whitley County I did not get to work: Kresege Coal Mining Co., Wofford, Ky.; New Watts Creek Coal Co., Wofford, Ky.; Estes Jellico Coal Co., Pleasant View, Ky.; Bon Jellico Coal Co., Bon Jellico; Jellico Mining Co., Mountain Ash; Saxton Coal Co., Saxton; Proctor Coal Co., Red Ash. These are all small mines with the exception of Proctor Coal Co., Red Ash. I think it is an old mine. Mr. Laxton and I liked 3 mines in Bell County getting them worked. Log Mountain Coal Co., has two mines, Davisburg and Harrison, Ky. Colman Mining Co., Blanch, Ky. New Coal Company located at Arjay, Ky. Gooch Coal Company, Pineville, Ky. I haven't any abandoned mines in my district that I know of. I have in my district about 75 wagon mines.

Fatality of John Lake and Pascal Patterson, employed by the Carter Coal Co. On September 6, 1920. This mine is located at Warren, Ky., Branch line of L. & N. R. R. The mine foreman had on September the 6th, six men cleaning a ditch out about five hundred feet from the drift mouth. The mine was idle on this day on account of no railroad cars. John Lake and Pascal Patterson were working day work, and the mine foreman had them cleaning this ditch out in order to drain the water from the main line. There were six men in all doing this work, they had taken in a trip of empties and were working in between the rib and the cars when the rock broke loose above and came down breaking in two pieces, one of the pieces caught Lake and Patterson under it, killing Lake instantly, Patterson lived about thirty minutes after getting him out. The rock was 12 feet long, 5 feet wide and 5 inches thick. Side fall on rib. John Lake had been employed by this company 8 years, Patterson had been an employee of the company one year. Lake was 31 years of age and Patterson 19 years of age. This accident happened in Knox County. Both these men were Americans.

Fatality of Tom Leagen employed by the Fidelity Coal Company located at Meldrum, Ky. On October 6, 1920, Tom Leagen was driving a room on the air course side of 7th right entry, the room was in about 50 feet from the entry he had widened the room to about thirty feet. He was working on

the crooked roadway up at or near the face, just in front of his car which he was loading, he was digging or mining to finish the car that lacked some of being loaded, when the bell or kettle bottom dropped or fell killing him instantly, he had just brought in a car load of timbers that morning, he had set some of the timbers along the face, the timbers were up within 3 or 4 feet of the face, and set every 3 or 4 feet apart. The slate was broken very badly along the face of room and on the straight road way. The mine foreman or assistant mine foreman states he was in Leagens place about 20 minutes before the accident and states he advised Leagen to set a timber under the kettle bottom, and further says he was under the slate himself and saw it was loose, says Leagen promised him to timber the slate, but did not do it. The slate was 5 feet by 4 feet and 14 inches thick. Leagen was about 45 years of age and was an experienced miner. Colored. An American.

UTILITY GAS COAL CO., Four Mile, Ky.

This mine is located at Four Mile, Ky. This mine is working the St. Creek Seam coal, is mined by Electric Machines, hauled by mules. I visited this Mine in 1920 and found it in very good condition. The officials have always co-operated with the Department, and complied with the Law.

KANAWAH KNOX COAL CO., Elys, Ky.

This mine is located at Elys, Ky., on the L. & N. R. R. This mine is working the Dean Seam. Coal is mined by electric machines, coal is gathered with mules trammed to side track, by Electric motors to foot of slope and is taken to tipple by rope haulage. I visited this Mine in 1920, and found it to be in very good condition in every respect. The officials have always co-operated with the Department, and have complied with the law.

Main Office, Cincinnati, Ohio.

Officers: J. H. Martin, Pres., Middlesboro; W. C. Martin, Vice President, Eva Leaman, Secy.; Cincinnati, Ohio; J. H. Martin, Treas., Middlesboro, Ky.

PRICE, JELLICO COAL CO., Middlesboro, Ky.

This mine is located between Elys, and Four Mile, on L. & N. R. R. This mine is working the Four Mile Seam, Blue Gem.

Coal is shot from solid and hauled by mules. I visited this mine in 1921, and found it in good condition. The officials have co-operated with the Department, and complied with Law.

J. H. Fallon, Gen. Mgr.

KY. COLLIERIES COAL CO., Pineville, Ky.

This mine is located at Stilson, Branch Line of E. & N. R. R. This mine is working the Walsend seam. Coal is shot from solid, and is hauled by mules. I visited this Mine in 1920, and found it in very good condition. I recommended that all curtains be removed from places not working and Brattices be built, so as to conduct air current to working face. This recommendation was for the No. 4 mine. Company has complied with my instructions.

The officials have co-operated with the Department, and complied with the Law.

Officers of Company follow: T. C. Hughes, Pres. & Treas., Pineville, Ky.; Wm. Rowles, Secy., Pineville, Ky.

JEWETT, BIGLOW & BROOKS COAL CO., Hosman, Ky.

This mine is located on Greasy Creek at Hosman, and is known as J. B. Blue Gem Coal Co., and is on branch line of L. & N. R. R. This Mine is working the Dean seam, and coal is cut with Electric machines, coal is hauled by tram Motor and is gathered by mules. I visited this mine in 1920, and found it in very good condition. I recommended that D rails be put on incline, also put door in on Main so as to conduct air current up 5th, Left heading so reading could be taken.

Company has complied with recommendations, and has always co-operated with the Department, and complied with the Law.

Main Office, Detroit, Mich. Officers are: E. H. Jewett, Pres., Detroit, Mich.; E. L. Douglas, V. Pres., Cincinnati, Ohio;

L. H. Stone, Secy. & Treas., Cincinnati, Ohio; J. T. Bradley, Genrl. Mgr., Pineville, Ky.

These officers govern five mines in my District, three on Greasy Creek, and one at Elys, and one on Four Mile.

JEWETT, BIGLOW & BROOKS COAL CO., Pine Ridge, Ky.

Pine Ridge Mine.

This mine is located at Pine Ridge, Ky. Branch Line of L. & N. R. R. This Mine is working the Dean Seam. Coal is mined by Electric machines, and is hauled by a tram Motor and is gathered with mules. I visited this Mine in 1920 and found it in very fair condition. I recommended that curtains be removed and brattices be built in all places not working so as to improve air current.

Company has complied with recommendations, and has at all times complied with the law. And has co-operated with the department.

J. B. JELLICO COAL CO., Tinsley, Ky.

This mine is located at Tinsley, Ky. This mine is working the Dean seam, coal is mined with Electric Machines, and is hauled by Electric Motors. I visited this Mine in 1920, and found it in excellent condition.

The officials have always co-operated with the Department in every way, and have complied with the law.

PAGE JELLICO COAL CO., Elys, Ky.

This Mine is located at Elliotts Branch, on branch line of The L. & N. R. R. This mine is working the Dean Seam. The coal is mined by Electric Machines, and is hauled by Electric Motors.

I visited this mine in 1920 and found it in very fair condition, the Company has always co-operated with the Department, and complied with the Law.

M. D. BELL, Owner, Office, Pineville, Ky.

This Mine is located at Elliotts Branch, on branch line of

the L. & N. R. R. This Mine is working the Straight, Creek seam, and is shot from solid. The coal is hauled by mules.

I visited this Mine on August 12, 1920, and found it in very fair condition. The officials have always co-operated with the Department and complied with the law.

BOONE TRAIL COAL CO., Pineville, Ky.

This mine is located at Elliotts Branch, Ky. Branch line of L. & N. R. R. This Mine is working the St. Creek Seam. Coal is shot from solid. Coal is hauled by mules.

I visited this mine on August 10, 1920, and found it in very good condition.

The officials have always co-operated with the Department, and complied with the Law.

Richard Barker, sole owner. Main office, Pineville, Ky.

KENTUCKY ST. CREEK COAL COMPANY, Pineville, Ky.

This mine is located at Elliotts Branch on branch line of L. & N. R. R. This mine is working the St. Creek seam. Coal is shot from solid. Coal is hauled by mules. I visited this mine on August 11, 1920 and found it in good condition. The company has always co-operated with the department and complied with the law.

Mr. Suttle, President and General Manager. Main office, Pineville, Ky.

KENTUCKY RIDGE COAL COMPANY, Pineville, Ky.

This mine is located at Elliotts Branch on branch line of L. & N. R. R.. This mine is working the St. Creek seam. The coal is hauled by mules and shot from solid. I visited this mine on August 11, 1920 and found it in very fair condition. I recommended that water be kept off of main haulage road. The officials have always co-operated with the department and complied with the law.

J. H. Swartz, President and General Manager; E. W. Pitman, Superintendent; Jas. Hamton, Mine Foreman. Main office, Pineville.

FEDERAL COAL COMPANY, Pineville, Ky.

This mine is located on branch line of the Cary, Ky., L. & N. R. R. This mine is working the St. Creek seam. The coal is hauled by mules and shot from the solid. I visited this mine on August 16, 1920 and found it in good condition. The officials have always co-operated with the Department of Mines and have complied with the law.

NEW ARJAY COAL COMPANY, Arjay, Ky.

This mine is located at Arjay on branch line of L. & N. R. R. This mine is working the St. Creek seam and coal is shot from solid and worked with pick. Coal hauled by mules. I visited this mine on August 20, 1920, and found it in good condition. The officials have always co-operated with the department and complied with the law.

Main office, Pineville. L. A. Bowling, President and General Manager; Rice Griffin, Mine Foreman.

NEW STRAIGHT CREEK COAL COMPANY, Pineville, Ky.

This mine is located at Forks of St. Creek on branch line of L. & N. R. R. This mine is working the Straight Creek seam. The coal is hauled by mules and shot from the solid. I visited this mine on August 19, 1920 and found it in good condition in general. The company has always co-operated with the department and complied with the law.

J. W. Charlton, President and General Manager; Boss Tees, Mine Foreman. Main office, Pineville, Ky.

CAIN COAL COMPANY, Middlesboro, Ky.

This mine is located at Cary, Ky., on branch line of L. & N. R. R. and is working the St. Creek seam. The coal is shot from the solid and is hauled by mules. I visited this mine on August 18, 1920 and found it in very fair condition in all points. The officials have always co-operated with the department, and complied with the law.

Main office, Middlesboro, Ky. J. D. Cain, General Manager; E. Starns, Mine Foreman.

R. H. BARKER COAL COMPANY, Pineville, Ky.

This mine is located at St. Creek, Ky., on branch line of L. & N. R. R. This mine is working the St. Creek seam, and coal is shot from solid and is hauled by mules. I visited this mine on August 23, 1920 and found it in very good condition. The officials have co-operated with the department and complied with the law.

R. H. Barker, General Manager; John Marshall, Mine Foreman. Main office, Pineville, Ky.

LIBERTY COAL AND COKE COMPANY, Straight Creek, Ky.

This mine is located at Jentsent, on branch line of L. & N. R. R. and is working the Straight Creek seam. Coal is mined with pick and practically all robbing work. Motor haulage. I visited this mine on August 13, 1920 and found it in good condition in general. The officials have always co-operated with the department and complied with the law. This mine is known as Barker Mine No. 2.

BARKER MINE No. 4.

This mine is located at Jentsent on Elliotts Branch. This mine is working the St. Creek seam and coal is mined by electric machines, and is a motor haulage. I visited this mine on August 13, 1920, and found it in very fair condition. I recommended that slate be taken on 2 and 3, north. Company has complied with recommendation. The officials have always co-operated with the department and complied with the law.

Main office, St. Creek, Ky. Officers of company: S. Thurston Ballard, Louisville, Ky., President; M. S. Barker, Vice-President; R. R. Atkins, Straight Creek, General Manager; K. T. Cornelius, Sales Agent; A. R. Anderson, Auditor.

Dates of strikes: The first was called or happened on August 30, and lasted up to September 6, 1920. Second strike August 2 to August 6, 1920. Cause: demand for more money.

FRANKLIN COAL COMPANY, Artemus, Ky.

Mine is located at Rock Clift, Ky., on L. & N. R. R. Mine is working the Dean seam. Coal is shot from solid, and is hauled

by mules. I visited this mine on September 23, 1920 and found it in good condition as to health and safety. The officials have always co-operated with the department and have complied with the law.

W. R. Kinder, President and General Manager; Alex Kinder, Mine Foreman.

RICHLAND CREEK COAL COMPANY, Grays, Ky.

Mine is located on L. & N. R. R. This mine is working the North Jellico seam of coal; coal is shot from solid and is hauled by mules. Mine is located at Arckle, Ky. I visited this mine on October 12, 1920, and found it in very fair condition as to health and safety. The officials have always co-operated with the department in every way, and have complied with the law. Dan Railey, Mine Foreman.

TURNER JELICO COAL COMPANY, Grays, Ky.

This mine is located at Arckle, Ky., on main line of the L. & N. R. R. This mine is working the North Jellico seam. Coal is shot from solid and is hauled by mules. I visited this mine on October 13, 1920, and found it in very good condition as to health and safety. The officials have always co-operated with the department and complied with the law.

Wm. Jackson, President.

GORDEN MILLER COAL & COKE COMPANY, Grays, Ky.

This mine is located at Rossland, Ky., on spur track of L. & N. R. R. This mine is working the North Jellico seam. Coal is mined by electric machines and is hauled by mules. I visited this mine on October 13, 1920 and found it in very fair condition as to health and safety. The officials have always co-operated with the department and have complied with the law.

ROSSLAND COAL & MINING COMPANY, Grays, Ky.

This mine is located at Rossland, Ky., on L. & N. R. R. This mine is working the North Jellico seam. Coal is shot from solid and hauled by mules. I visited this mine on October 13, 1920, and found it in good condition as to health and safety.

The officials have always co-operated with the department in every way and have complied with the law.

Chas. Conant, President and General Manager, Pineville, Ky.

K. D. BLUE GEM COAL COMPANY, Barbourville, Ky.

This mine is located on the Cumberland & Manchester R. R. This mine is working the Blue Gem seam. Coal is shot from the solid and is hauled by mules. I visited this mine on October 8, 1920, and found it in very good condition. I recommended that all brattices be overhauled on main entry so reading could be taken in last break in head of main entry. Company has complied with recommendation and has always co-operated with the department and complied with the law.

N. O. Smith, President and General Manager; Harrison Smith, Mine Foreman.

SUN COAL COMPANY, Flat Lick, Ky.

This mine is located on Spur track of L. & N. R. R., Flat Lick, Ky. Company is working Blue Gem seam. Coal shot from solid and is hauled by mules. I visited this mine in 1920 and found it in very fair condition as to health and safety. The officials have always co-operated with the department and complied with the law. Jas. Hibbard, Mine Foreman.

INNIS COAL COMPANY, Himure, Ky.

This mine is located on spur track of L. & N. R. R., Himure, Ky. Mine is working Blue Gem seam. Coal is shot from solid and is hauled by mules. I visited this mine on November 22, 1920, and found it in very good condition as to health and safety. The officials have always co-operated with the department and complied with the law.

W. H. Avant, President and General Manager; C. F. Chavis, Mine Foreman.

JACKSON COAL COMPANY, Artemus, Ky.

Mine is located at Marx, Ky., on branch line of L. & N. R. R. Coal is shot from solid and coal is hauled by mules. Company is operating the Dean seam. I visited this mine on September 20, 1920, and found it in extra condition as to

health and safety. The officials have always co-operated with the department and complied with the law.

W. R. Kinder, President and General Manager; J. A. Dye, mine Foreman.

KENTUCKY BLUE GEM COAL COMPANY, Artemus, Ky.

Mine is located at Marx, Ky., on L. & N. R. R. Mine is operating Blue Gem seam. Coal is shot from solid and hauled by mules. I visited this mine on September 21, 1920 and found it in very good condition as to health and safety. The officials have always co-operated with the department and complied with the law. J. H. Manning, Mine Foreman.

BURGIS COAL COMPANY, Barbourville, Ky.

This mine is located at Hydrick, Ky., on Cumberland and Manchester R. R. This mine is working the Blue Gem seam. Coal is shot from solid and is hauled by mules. I visited this mine on October 6, 1920, and found it in very fair condition as to health and safety. The officials have always co-operated with the department and have complied with the law. J. H. Burgis, Mine Foreman.

RICHLAND CREEK COMPANY, Barbourville, Ky.

This mine is located at Hydrick, Ky., on the Cumberland & Manchester R. R. This mine is working the Blue Gem seam. Coal is shot from the solid and is hauled by mules. I visited this mine on October 6, 1920, and found it in good condition as to health and safety. The officials have always co-operated with the department and complied with the law. A. B. Coone, Mine Foreman.

HEAR JAY BLUE GEM COAL COMPANY, Barbourville, Ky.

This mine is working the Blue Gem seam. Mine is located at Hydrick, on Cumberland & Manchester R. R. Coal is shot from solid and is hauled by mules. I visited this mine on October 6, 1920, and found it in good condition in every way as to health and safety. The officials have always co-operated with the department and have complied with the law. O. A. McDonald, Mine Foreman.

HURRON COAL COMPANY, Barbourville, Ky.

This mine is located at Hydrick, on the Cumberland & Manchester R. R. This mine is working the Blue Gem seam. Coal is shot from solid and is hauled by mules. I visited this mine on October 8, 1920, and found it to be in good condition as to health and safety. The officials have always co-operated with the department and complied with the law. Henry Branstetter, Mine Foreman.

POWER COAL COMPANY, Trospers, Ky.

This mine is working the Dean seam. Mine is located at Trospers on branch line of L. & N. R. R. This mine is retreating or robbing, the coal is shot from the solid, and is hauled by mules. The mine is known as mine No. 2. I visited this mine on September 24, 1920, and found it in very good condition. I recommended that door be put at mouth of first left on main so as to conduct air current up first left, and that all curtains be taken out of places not working; brattices be built in places not working; ditch drift mouth and keep water out of main line; keep close watch on all men on robbing work. The officials have always co-operated with the department and complied with the law. They have complied with recommendations of September 24th.

Officers of company are: R. L. Wheeler, Trospers, Ky., President; R. L. Wheeler, Vice President and Treasurer; J. A. Sanders, Knoxville, Tenn., Secretary. Main office, Knoxville, Tenn. These officers govern three mines in my district.

WHEELER JELLICO COAL COMPANY, Anchor, Ky.

This mine is located at Anchor, Ky., on branch line of L. & N. R. R. and is working the Dean seam. The coal is mined by electric machines and is hauled by mules. I visited this mine on September 28, 1920, and found it in very good condition. The officials have always co-operated with the department and have complied with the law. .

NEW TROSPERS COAL COMPANY, Trospers, Ky.

This mine is located at Trospers, Ky., on L. & N. R. R. The coal is shot from solid and is hauled by mules. All robbing

work. I visited this mine on September 30, 1920, and found it in good condition as to health and safety. This mine is working the Dean seam. The officials have always co-operated with the department and complied with the law.

SMITH RILEY COAL COMPANY, Barbourville, Ky.

This mine is located at Barbourville, Ky., on the L. & N. R. R. This mine is working the Blue Gem seam. Coal is shot from solid and is hauled by mules. I visited this mine on October 5, 1920, and found it in fine condition as to health and safety. The officials have always co-operated with the department and have complied with the law. H. B. Broughton, Mine Foreman.

CARTER COAL COMPANY, Warren, Ky.

This mine is located at Warren, Ky., on branch line of L. & N. R. R. This mine is working the Dean seam. Coal is mined by electric machines and is electric motor haulage. I visited this mine on September 29, 1920, and found it in very good condition as to ventilaton and drainage. I recommended that all loose slate be taken down on main haulways and traveling ways. Officials have at all times co-operated with the department and complied with the law. This mine is known as the Warren Mine.

CARTER COAL COMPANY, Anchor, Ky.

This mine is located at Anchor, Ky., on L. & N. R. R. Coal is mined by electric machines and is a motor haulage. Dean seam. I visited this mine on September 27, 1920, and found it in extra good condition in every way. This mine shows marked improvement by the present inside management. The officials have always co-operated with the department, and complied with the law.

CARTER COAL COMPANY, Trospen, Ky.

This mine is located at Trospen, Ky. This mine is working the Dean seam. Coal is mined by electric machines and is motor haulage. I visited this mine on September 22, 1920, and found it in good condition as to health and safety. The

officials have at all time co-operated with the Department, and have complied with the law.

George D. Carter, President; J. W. Carter, Vice President and General Manager; C. A. Hall, treasurer. Main offices, Coal Wood, W. Va.

NEW SIDE MINE No. 2, MAHAN JELICO COAL COMPANY, Packard, Ky.

This mine is operating the Jellico seam. This mine is mined by electric machines. Coal is gathered with mules and trammed by electric motors to tippie. I visited this mine on December 8, 1920, and found it in good condition as to health and safety. The officials have always co-operated with the department and complied with the law.

GATLIFF COAL COMPANY, MINE No. 1, Gatliff, Ky.

This mine is located at Gatliff, Ky., on the Knoxville division of the L. & N. R. R. This mine is working the Jellico seam. Pick mine, all robbing work. Coal is gathered by mules and trammed by motor to tippie. I visited this mine on December 9, 1920, and found it in good condition as to health and safety. The officials have always co-operated with the department and complied with the law. This mine is known as Mine No. 1, old side.

MINE No. 2, GATLIFF COAL COMPANY.

This mine is electric machine work and pick work. Coal is gathered by mules and trammed by electric motor to tippie. I visited this mine on December 9, 1920, and found it in very good condition in general as to health and safety. The officials have always co-operated with the department, and complied with the law.

MINE No. 3, GATLIFF COAL COMPANY, Gatliff, Ky.

This mine is located at Gatliff, Ky. Coal is mined by electric machines. Motor haulage. I visited this mine on December 10, 1920, and found it in excellent condition as to health and safety. This mine shows wonderful care has been taken in the development and in opening up of this mine. It is one

of the best in my district. The officials have always co-operated with the department, and have complied with the law.

Officers of company are: A. Gatliff, Williamsburg, Ky., President, N. B. Perkins, Vice President; J. B. Gatliff, General Manager; N. A. Archer, Secretary-Treasurer.

NORTH JELLICO COAL COMPANY, Wilton, Ky.

This mine is located at Wilton, Ky., on the Knoxville division of L. & N. R. R. This mine is operating the North Jellico seam. The coal is mined by electric machines, and is motor haulage. I visited this mine in 1920, and found it in good condition as to health and safety. The officials have always co-operated with the department, and complied with the law. This mine is known as the Hericine Ridge mine.

LOCUS RIDGE MINE, NORTH JELLICO COAL COMPANY, Wilton, Ky.

This mine is located at Wilton, Ky., and is working the North Jellico seam. This mine is mined with electric machines, motor haulage. I visited this mine in 1920, and found it in good condition as to health and safety. The officials have always co-operated with the department at all times, and have complied with the law.

OLIVE HILL MINE, Wilton, Ky.

This mine is machine mined. Coal is cut with electric machines. Electric motor haulage. I visited this in 1920, and found it to be in fine condition in every way. This mine is, in my belief, the best mine in my district. It shows wonderful good care has been taken in the construction and in the development. This mine hasn't a door in the mine ventilated by over cast. The mine is operated on the retreating system. This mine is well ventilated and the health and safety of the men working in this mine are well taken care of.

Officers of the company: Wm. S. Speed, President; F. M. Sackett, Vice President; C. D. Major, Treasurer; B. F. Reed, Manager of Sales; C. S. Nield, General Manager. Sales office, 315 Guthrie St., Louisville, Ky. This company is operating

four mines in my district: Pioneer Coal Company at Kettle Island, Ky.; North Jellico Coal Co., Wilton, Ky.

MAHAN JELlico COAL COMPANY, Packard, Ky.

This mine is located at Packard, Ky., on the Knoxville division of the L. & N. R. R. Jellico seam. This mine is retreating or robbing. Some puncher machine coal at this mine but mostly all pick work. This mine is known as old side No. 1. I visited this mine on December 9, 1920, and found it to be in good condition as to health and safety. The company has always co-operated with the department in every way and has complied with the law.

GATLIFF COAL COMPANY, No. 4, Gatliff, Ky.

This mine is located at Gatliff, Ky. Blue Gem coal is shot from the solid and is hauled by mules. I visited this mine on Dec. 13, 1920, and found it in very good condition, I recommended that all brattices be overhauled, and that a door be built at mouth of 1st left. Company has complied with recommendations and have always co-operated with the department, and complied with the law.

GATLIFF, No. 5, BLUE GEM MINE, Gatliff, Ky.

This mine is located at Gatliff, Ky. This mine is working the Jellico Blue Gem seam. The coal is shot from the solid and is hauled by mules. I visited this mine on Dec. 13, 1920; and found it in very fair condition as to health and safety. The officials have always co-operated with the department, and have complied with the law.

MAMMOTH BLUE GEM COAL COMPANY, Gatliff, Ky.

This mine is working the Jellico Blue Gem seam. Coal is shot from the solid and is hauled by mules. I visited this mine on Dec. 14, 1920; and found it to be in extra fine condition as to ventilation, timbering and drainage. The officials have always co-operated with the department, and have complied with the law. Sol. L. Smith, President and General Manager; Francis Angle, Mine Foreman.

DRAKE BLUE GEM COAL COMPANY, Nevisdale, Ky.

This mine is located at Nevisdale, Ky. This mine is working Jellico Blue Gem seam of coal. Coal is shot from the solid and is hauled by mules. I visited this mine on Dec. 15, 1920, and found it to be in good condition as to health safety. The officials have co-operated with the department, and complied with the law.

DRAKE BLUE GEM COAL COMPANY, Mine No. 2.

Packard, Ky.

This mine is working the Jellico Blue Gem seam. Coal is shot from the solid and is hauled by mules. I visited this mine on Dec. 15, 1920, and found it in very fair condition as to health and safety. The officials have always co-operated with the department and have complied with the law. Wm. Stott, President and General Manager; Mart Freeman, Mine Foreman.

WALLEN COAL COMPANY, Gatliff, Ky.

This mine is located at Gatliff, Ky. This mine is working the Jellico Blue Gem seam. Coal is shot from the solid and is hauled by mules. I visited this mine on Dec. 14, 1920, and found it to be in very good condition as to health and safety. The company has always co-operated with the department and complied with the law. George M. Wallen, Gatliff, Ky., President and General Manager.

EVANS JELlico COAL COMPANY, Jellico, Tenn.

This mine is located at Jellico, Tenn. This mine is working the Jellico seam. Coal is shot from the solid and is hauled by mules. I visited this mine on Jan. 5, 1921, and found the mine in good condition as to health and safety. The officials have always co-operated with the department and complied with the law. J. C. Bird, Williamsburg, Ky., President and General Manager; Henry Horton, Mine Foreman.

BURK HOLLOW COAL COMPANY, Jellico, Tenn.

This mine is located at Burk Hollow, Ky. This mine is working the Jellico seam. Coal is shot from the solid and is hauled

by mules. I visited this mine on Jan. 6, 1921, and found it in extra good condition as to ventilation, timbering and drainage. The officials have always co-operated with the department and have complied with the law. W. F. Hobbs, Vice-President; J. T. Moore, Jellico, Tenn., President; F. M. Huddleston, Mine Foreman, Jellico, Tenn.

MAIN JELICO MOUNTAIN COAL COMPANY,
Jellico, Tenn.

This mine is located at Kensee, Ky., on L. & N. R. R. This mine is working the Jellico seam. Coal is mined by electric machines and is hauled by mules. This mine is retreating or robbing. I visited this mine on Jan. 7, 1921, and found it in good condition as to health and safety. The officials have always co-operated with the department and have complied with the law. J. H. Barker, Jellico, Tenn., President; Chas. Jennings, Jellico, Tenn., Secretary-Treasurer; W. F. Perkins, Superintendent, Jellico, Tenn.

LOG MOUNTAIN COAL COMPANY, Davisburg, Ky.

This mine was inspected by J. H. Fallon on Jan. 6, 1920. Ventilation, timbering and drainage very good. Haulage tracks badly bonded, have same bonded and have trolley hangers replaced that have fallen out and have all entrys sealed, all other conditions satisfactory.

HIGNITE COAL AND MINING COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on Jan. 7, 1920. Ventilation, timbering and drainage satisfactory. Raise the low trolley wires on the out side, especially where tippie men come in contact with same. No dangerous roof or other conditions noted.

HOWLEY COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on Jan. 7, 1920. Inside conditions very good. Keep a good fire in the furnace at all times while men are at work. Go over and repair brat-

tices on main entry. Also seal all entries and keep close watch over all robbing work. Other conditions satisfactory.

LONG BRANCH COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on Jan. 7, 1920. Ventilation at head of main entry very poor. Brattices built out of slate, were not completed, and four open breaks toward head of entry. Put door at 3rd left, and brattice all break through toward main heading, leave one open break. Also complete brattices on 3rd left, and remove water from swag on main entry so miners can travel same without having to wade through water. Other conditions satisfactory.

LOW ASH COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on Jan. 8, 1920. Ventilation, timbering and drainage very good. No dangerous roof conditions noted.

CLOVER LEAF COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on Jan. 9, 1920. Ventilation, timbering and drainage very satisfactory for the present development.

DIXIE COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on Jan. 9, 1920. Ventilation, drainage and timbering very satisfactory for present development work. File plan of proposed operation with the Chief Inspector of Mines at Lexington, Ky.

NEW BELL JELICO COAL COMPANY, Bell Jellico, Ky.

This mine was inspected by J. H. Fallon on Jan. 21, 1920. Not working on day of inspection. All visible conditions very satisfactory. Dean seam, puncher machines and mule haulage.

J. B. BLUE GEM COAL COMPANY, Hosman, Ky.

This mine was inspected by J. H. Fallon on Jan. 21, 1920. Mine not working on day of inspection on account of no R. R. cars. All visible conditions satisfactory. Dean seam, electric

machine mine, motor haulage and all visible conditions satisfactory.

BAILEY COAL COMPANY, Blanch, Ky.

This mine was inspected by J. H. Fallon on Jan. 22, 1920. Mine closed down on account of no R. R. to tippie. If not already done, file plans of future development with the Department of Mines at Lexington, Ky. Also when you expect to resume work. St. Creek seam. Solid work and mule haulage.

COLMAN MINING COMPANY, Blanch, Ky.

Ventilation, timbering and drainage satisfactory. Scale top on 14th right entry, also put guards up at all crossings where men have to pass under trolley wires. Other conditions satisfactory. St. Creek seam, puncher machines and motor haulage. This mine was inspected by J. H. Fallon on Jan. 22, 1920.

ED. PHILIPS, Trustee. Successor to Chappell Coal Company, Haburn, Ky.

This mine was inspected by J. H. Fallon on Jan. 22, 1920. Conditions relative to ventilation, timbering and drainage satisfactory for the present workings. If not already done file plans of future development with the Department of Mines, Lexington, Ky. Daisy Blue Gem seam. Solid work coal is hauled by mules.

ROTH COAL COMPANY, Pineville, Ky.

This mine was inspected by J. H. Fallon on Jan. 22, 1920. Ventilation, timbering and drainage, very good. No dangerous roof or other conditions noted. St. Creek seam, solid work, and mule haulage.

CUB BEAR MINING COMPANY, Fourmile, Ky.

Mine was inspected by J. H. Fallon on Jan. 28, 1920. Ventilation extra good. Timbering and drainage very satisfactory. Keep close watch over robbing work. And keep a supply of

timbers for miners engaged in the robbing work. Other conditions satisfactory. Rim seam solid work and mule haulage.

J. B. ST. CREEK MINING COMPANY, Fourmile, Ky.

This mine was inspected by J. H. Fallon on Jan. 28, 1920. This mine is in extra good condition in all respects. Rim seam, electric machines and mule haulage.

INDIAN CREEK COAL COMPANY, Fourmile, Ky.

This mine was inspected by J. H. Fallon on Jan. 29, 1920. Ventilation at this mine is very deficient on account of the furnace stack falling down some time past. Drainage also poor on account of trouble with the siphon line. You must rush work on the erection of furnace stack at once. Also get water out of swag on main entry. Other conditions satisfactory. Rim seam and electric machine. No. 5 Mine.

INDIAN CREEK COAL COMPANY.

Fourmile, Ky.

Mine was inspected by J. H. Fallon on Jan. 29, 1920. Ventilation, timbering and drainage extra good. No dangerous roof conditions noted. No. 1 mine, rim seam, electric machine and mule haulage.

INDIAN CREEK COAL COMPANY, Fourmile, Ky.

This mine was inspected by J. H. Fallon on Jan. 29, 1920. Ventilation extra good. Timbering and drainage very satisfactory. Roof conditions at this mine is extra good, no dangerous roof or other conditions noted. Rim seam, and electric machine. Coal is gathered by mules and trammed by motor, this is done at all these mines. Offices in Pineville, Ky.

PINNACLE COAL COMPANY, Ralston, Ky.

This mine was inspected by J. H. Fallon on March 23, 1920. Ventilation is very weak. You must rush up the work on ventilation to get the mine to well within the limit of the law. Other conditions satisfactory. Old Rock House Mine.

CRYSTAL COAL COMPANY, Logmont, Ky.

This mine was inspected by J. H. Fallon on March 23, 1920. Ventilation and timbering good. Water was not ditched on the main entry as requested in last report. Trolley wires need stretching and hangers installed in several places. Also the trolley wires at crossings have not been guarded. These instructions must be complied with. Other conditions satisfactory.

**LOWER HIGNITE COAL AND MINING COMPANY,
Middlesboro, Ky.**

This mine was inspected by J. H. Fallon on March 24, 1920. Nos. 1, 2 and 3 were found to be in very good condition in all respects. No dangerous roof or other conditions noted.

**LOWER HIGNITE COAL MINING COMPANY,
Middlesboro, Ky.**

This mine was inspected by J. H. Fallon on March 24, 1920. Ventilation, timbering and drainage, for present workings, very satisfactory.

ATLAS COAL COMPANY, Ralston, Ky.

This mine was inspected by J. H. Fallon on March 24, 1920. Ventilation and timbering good. Drainage is bad on account of water standing in swag on main entry. Keep this water syphoned out. also keep ditch cleaned at drift mouth. Other conditions satisfactory.

COAL CREEK COAL COMPANY, Ralston, Ky.

This mine was inspected by J. H. Fallon on March 25, 1920. Ventilation, timbering and drainage, satisfactory. No dangerous roof or other conditions noted.

HIGNITE COAL AND MINING COMPANY, Shamrock, Ky.

This mine was inspected by J. H. Fallon on March 25, 1920. Ventilation, timbering and drainage, satisfactory. Rush the completion of the new air way going through 1st to 2nd left. Which will short circuit the current and improve the ventila-

tion on 1st left, which is weak. Head lights are not being kept on motors, which must be done. Other conditions very satisfactory. Givens side No. 3.

HIGNITE COAL AND MINING COMPANY, Shamrock, Ky.

This mine was inspected by J. H. Fallon on March 25, 1920. This mine is in very good condition in all respects. Keep close watch and give careful attention to men engaged on robbing work. See that sufficient timbers are always on hand. No. 1 Mine.

HOWLEY COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on March 26, 1920. Ventilation very good. Timbering and drainage satisfactory. No dangerous roof or other conditions noted. Keep a good fire in the furnace at all times while men are at work inside the mine. While your furnace is producing sufficient ventilation at the present time. I would suggest that you push the work necessary to install a fan.

LONG BRANCH COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on March 26, 1920. This mine is now in very good condition regarding ventilation and timbering. Drainage is bad. You must keep the water out of swag on main entry and keep entry reasonably dry. Other conditions satisfactory.

MONARCH COAL AND COKE COMPANY,

Hollingsworth, Ky.

This mine was inspected by J. H. Fallon on March 29, 1920. Ventilation and timbering is good. Drainage is poor. Entrys have been sealed and breakthroughs completed on 9th right, to short circuit the ventilation on 9th right is satisfactory. Shoot top in swag on main entry to raise track out of water. Also shoot swag on 14th left, and repair trolley wires on 11th left and install hangers in place of those fallen out. And slab the entry at the intersection at 9th right, where the inspector met

with a serious accident on day of inspection. As there is no clearance between the cars and the rib at this point.

CAIN COAL COMPANY, Cary, Ky.

This mine was inspected by J. H. Fallon on March 16, 1920. This mine was found in excellent condition in every respect.

NEW ST. CREEK COAL COMPANY, Pineville, Ky.

This mine was inspected by J. H. Fallon on March 15, 1920. There is ample air entering this mine. The ventilation has simply been neglected. Brattices are leaking the air from the drift mouth in, while ample air is entering the mine it not being conducted to any working face or place. Put up good trap door on main entry to throw current up 5th left entry, go over all brattices starting at the driftmouth, and make them airtight. Do not use brattice cloth for breakthrough stoppings, you have only twenty days to do this from date of this notice, and you are warned to comply with these instructions, or you will be enjoined from operating this mine until such times as you render this mine wholesome.

WILHOR COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on March 17, 1920. Ventilation, timbering and drainage satisfactory. No dangerous conditions noted.

ORBY COAL COMPANY, Shamrock, Ky.

This mine was inspected by J. H. Fallon on March 17, 1920. Mine being idle on day of inspection, no inspection was made. Notify inspector when you resume operation.

FERNDAL COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on March 18, 1920. Ventilation, timbering and drainage good. This mine shows some improvement since the present foreman has taken charge. No dangerous conditions noted.

PRUDEN COAL AND COKE COMPANY, Pruden, Tenn.

This mine was inspected by J. H. Fallon on March 22, 1920. This mine is in good condition in all respects. No roof or other conditions noted. Back Creek Mine No. 1.

PRUDEN COAL AND COKE COMPANY, Pruden, Tenn.

This mine was inspected by J. H. Fallon on March 22, 1920. The ventilation, and timbering was all that could be desired. Drainage was good. All other conditions satisfactory. Back Creek Mine No. 2.

R. H. BARKER COAL COMPANY, Pineville, Ky.

This mine was inspected by J. H. Fallon on Jan. 16, 1920. Ventilation, timbering and drainage satisfactory. No dangerous conditions noted. Harris seam, solid work, and coal is hauled by mules.

KENTUCKY RIDGE COAL COMPANY, Pineville, Ky.

This mine was inspected by J. H. Fallon on Jan. 16, 1920. Ventilation, timbering and drainage satisfactory. No dangerous conditions noted. St. Creek seam. Coal is hauled by mules. Solid work.

TURNER COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on Jan. 19, 1920. Mine not working on day of inspection on account of boiler trouble. All visible conditions were satisfactory. No dangerous roof or other conditions noted.

FERN LAKE FUEL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on Jan. 19, 1920. Rush work of driving the main entry of the Jack Rock seam to the outside, to improve your ventilation. No dangerous roof conditions noted, all other conditions satisfactory. Jack Rock Petersburg seams.

JAY BEE JELLICO COAL COMPANY, Tinsley, Ky.

This mine was inspected by J. H. Fallon on Jan. 20, 1920. All conditions relative to ventilation, timbering and drainage, good. Put up guards to trolley wires on all crossings. Also raise track out of water at far end of tunnel. Other conditions very good. In justice to the present mine foreman this mine shows wonderful improvement over past conditions. Dean seam, electric machine mine and electric motor haulage.

PINE RIDGE COAL AND MINING COMPANY, Tinsley, Ky.

This mine was inspected by J. H. Fallon on Jan. 20, 1920. Fan was running, but mine was not working. Ventilation extra good. Clean out ditch at drift mouth to dry up tracks. All other conditions satisfactory. Dean seam, electric machine mine, and motor haulage.

BREWER AND CHILDERS LESSEE, J. B. ST. CREEK COAL COMPANY, Fourmile, Ky.

This mine was inspected by J. H. Fallon on Jan. 30, 1920. This mine is in very good condition in all respects for the four men now working. St. Creek seam and mule haulage.

UTILITY GAS AND COAL COMPANY, Pineville, Ky.

This mine was inspected by J. H. Fallon on Jan. 30, 1920. This mine is in extra good condition in all respects. The mining law is fully complied with. St. Creek seam, electric machine mine and mule haulage.

S. S. COAL COMPANY, Middlesboro, Ky.

This mine was inspected on Feb. 25, 1920, by J. H. Fallon. Conditions in and around this mine are very satisfactory for the present workings. Big Buck seam.

PENNACLE COAL COMPANY, Middlesboro, Ky.

This mine was inspected on Feb. 25, 1920, by J. H. Fallon. This mine shows bad neglect as to ventilation. While ample air is entering this mine you are allowing it to leak back through the old workings, losing the major part of your current before

reaching the working face or places. Brattice all breaks on your intake air from the fan to your main face entry. Place a good curtain or door on main face above 12th left entry. Also put good curtain on 12, left entry between No. 1 and No. 2 left. Also brattice up break on No. 1, put curtain or door on main face to turn current up 11th, and give the fan close attention. When breakers are knocked and repair automatic starting box. You must at once give the ventilation of this mine your proper attention and bring it up to well within the law. This condition of allowing the ventilation to go neglected will not be tolerated by the inspector. Another inspection will be made in the near future. Other conditions satisfactory.

ROME COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on January 2, 1920, and found as to timbering good, drainage satisfactory, ventilation deficient; on first left in No. 1 opening, also in No. 2, opening brattice second break from heading on first right, and keep main door closed at all times while men are at work, and get ventilation restored on first left.

ORBY COAL COMPANY, Wasiota, Ky.

This mine was inspected by J. H. Fallon on January 3, 1920. Ventilation, drainage and timbering satisfactory. No dangerous roof conditions noted. Keep close watch over all men on robbing work.

WILHOR COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on January 3, 1920. Conditions very satisfactory relative to ventilation, timbering and drainage. No dangerous roof conditions noted.

FIDELITY COAL COMPANY, Meldrum, Ky.

This mine was inspected by J. H. Fallon on January 3, 1920. This mine is in very good condition regarding ventilation and timbering, with the exception of the flooded district, which is being removed as rapidly as possible. No dangerous roof conditions noted. All other conditions satisfactory.

CHENOA HIGNITE COAL CO., Chenoa, Ky.

This mine was inspected by J. H. Fallon on January 5, 1920. Conditions very good regarding timbering and ventilation, and drainage was extra good. Some bad slate was noted on far end side of track; have same taken down and timbered. Stretch trolley wires and secure same with trolley hangers. All other conditions satisfactory.

LOG MOUNTAIN COAL COMPANY, Harrison, Ky.

This mine was inspected by J. H. Fallon on January 5, 1920. Ventilation is excellent, timbering and drainage good. Rush break on seventh left and put door on main entry to turn air up seventh left and seal all entries. Put trolley hangers in place of those fallen out. Other conditions satisfactory.

**BENNETTS FORK COAL AND MINING COMPANY,
Middlesboro, Ky.**

This mine was inspected by J. H. Fallon, January 10, 1920. Ventilation, timbering and drainage very satisfactory. No dangerous roof conditions noted, all other conditions satisfactory. No. 2 Mine. Winona seam.

**BENNETTS FORK COAL & MINING COMPANY,
Middlesboro, Ky.**

This mine was inspected by J. H. Fallon on January 10, 1920. This mine is in very satisfactory condition for the four men working regarding ventilation, timbering and drainage.

SHARP COAL COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on January 12, 1920. You must rush your other opening to the outside, so as to better your ventilation. You must not use any more than the four men at present working until you install better ventilation, and also discontinue the practice of leaving powder lying around on inside of the mine. If this powder was not left in the mine the probability is this accident would have been avoided. (Stray seam).

VICTOR COAL AND MINING COMPANY, Middlesboro, Ky.

This mine was inspected by J. H. Fallon on January 12, 1920. Mine in very good condition relative to ventilation, timbering and drainage. No dangerous roof conditions noted. Slope mine.

KENTUCKY COLLIERIES COMPANY, Pineville, Ky.

This mine was inspected by J. H. Fallon on January 13, 1920. Ventilation, timbering and drainage very satisfactory. No dangerous roof or other conditions noted. No. 2 Mine. (Wallsend seam.) Solid work hauled by mules.

KENTUCKY RIDGE MINING COMPANY, Pineville, Ky.

This mine was inspected by J. H. Fallon on January 13, 1920. Bud Coots & F. W. Isaacs, contractors, cleaning up mine to resume work. Everything satisfactory for the present work. Clean out your air shaft at once so as to resume ventilation when you are ready to put miners to work. (Rim seam). Solid work hauled by mules.

PIONEER COAL COMPANY, Kettle Island, Ky.

This mine was inspected by J. H. Fallon on January 14, 1920. Ventilation, timbering and drainage very good. No dangerous roof or other conditions noted, except the unguarded trolley wire at crossings which should be guarded. Machine mine electric, motor haulage electric. St. Creek seam.

CONANT COAL COMPANY, Pineville, Ky.

This mine was inspected by J. H. Fallon on January 14, 1920. Timbering good, ventilation and drainage only fair. Build a good door on first right of main entry in No. 2 opening. Also repair all brattices on main entry to second right, and put good door or curtain on second right. Pump water out of swag on main entry. All other conditions satisfactory. Keep close watch on robbing work.

KENTUCKY RIDGE COAL COMPANY, Pineville, Ky.

This mine was inspected by J. H. Fallon on January 15, 1920. Mine in satisfactory condition relative to ventilation,

timbering and drainage. No dangerous roof conditions noted. Keep close watch over men on robbing work and keep good supply of timbers on hand at all times. This mine is working the St. Creek seam. Solid work coal is hauled by mules.

LIBERTY COAL & COKE COMPANY, St. Creek, Ky.

This mine was inspected by J. H. Fallon on January 15, 1920. The ventilation timber and drainage of this mine was all that could be desired. No dangerous roof conditions noted. This mine is extra well maintained by the present management. Electric machine mine, motor haulage. St. Creek seam.

BOON TRAIL COAL COMPANY, Pineville, Ky.

This mine was inspected by J. H. Fallon on January 16, 1920. Mine is very satisfactory relative to ventilation, timbering and drainage. Keep close watch over all men on robbing work and make frequent inspections of same. St. Creek seam. Solid work, coal is hauled by mules.

CULTON YEAGER COAL COMPANY, Pineville, Ky.

Mine was inspected by J. H. Fallon on January 23, 1920. Mine in good condition relative to ventilation, timbering and drainage. No dangerous roof or other conditions noted. File plans of proposed operation with the Department of Mines, Lexington, Ky. Rim seam, solid work and mule haulage.

FEDERAL COAL COMPANY, Arjay, Ky.

This mine was inspected by J. H. Fallon on January 23, 1920. This mine is extra good condition as to ventilation, timbering and drainage. No dangerous roof conditions noted. Glenden Mine, St. Creek seam. Machine mine electric, motor haulage.

FEDERAL COAL COMPANY, Cary, Ky.

This mine was inspected by J. H. Fallon on January 24, 1920. Mine not working on day of inspection on account of no railway cars. Fan was running and ventilation very good. All other visible conditions were very good. Keep close watch over all robbing work, and see that miners on robbing work have

sufficient timbers on hand at all times. St. Creek seam. Mule haulage. Cary Mine Nos. 2 and 3.

FEDERAL COAL COMPANY, Cary, Ky.

This mine was visited by J. H. Fallon on January 24, 1920. No inspection was made owing to the mine being closed down, on account of heavy rains breaking in on mine causing temporary suspension of the mine. This mine is known as the Castro Mine, and is leased or contracted by S. E. Bengy. St. Creek seam. Mule haulage solid work; mostly all robbing work.

HARVIN COAL COMPANY, Cary, Ky.

Mine was inspected by J. H. Fallon on January 24, 1920. Mine in first class condition in all respects. If not already done file plans of proposed operation with the Department of Mines, Lexington, Ky. St. Creek seam. Solid work, mule haulage.

ARCADIA COAL COMPANY, Wallsend, Ky.

This mine was inspected by J. H. Fallon on January 28, 1920. Ventilation, timbering and drainage satisfactory. Keep close watch over all robbing work and keep a supply of timbers on hand at all times for the safe working of said work. Wallsend seam. Solid work mule haulage.

ROSSLYN COAL COMPANY, Pineville, Ky.

This mine was inspected on March 5, 1920, by J. H. Fallon. Mine not working on day of inspection on account of no railway cars. All visible conditions in and around this mine were satisfactory.

GORDEN MILLER COAL & COKE COMPANY, Grays, Ky.

This mine was inspected on March 5, 1920, by J. H. Fallon. Mine not working on day of inspection on account of no railway cars. All visible conditions in and around this mine were satisfactory. No dangerous roof or other conditions noted.

TURNER JELLICO COAL COMPANY, Grays, Ky.

This mine was inspected on March 5, 1920. This mine is ventilated by a furnace producing 9,300 cubic feet per minute. Well controlled through workings. Timber satisfactory, also drainage. No dangerous roof or other conditions noted.

RICHLAND CREEK COAL COMPANY, Grays, Ky.

This mine was inspected on March 5, 1920. While ample air is entering the mine it is not reaching the working face, you are allowing it to leak out through your brattices. You must have same repaired at once, so as to force the air to the head of works. Other conditions satisfactory.

SMITH RILEY COAL COMPANY, Barbourville, Ky.

This mine was inspected on March 9, 1920, by J. H. Fallon. Mine not working on day of inspection on account of no rail-way cars. All visible conditions satisfactory.

CARTER COAL COMPANY, Anchor, Ky.

This mine was inspected on March 12, 1920, by J. H. Fallon. Ventilation, timbering and drainage good. No dangerous conditions noted. This mine shows careful attention by present management.

WHEELER JELLICO COAL COMPANY, Anchor, Ky.

This mine was inspected on March 12, 1920, by J. H. Fallon. Mine not working on day of inspection on account of no rail-way cars. All visible conditions satisfactory.

ROTH COAL COMPANY, Wheeler, Ky.

This mine was inspected on March 12, 1920, by J. H. Fallon. Ventilation, timbering and drainage very good. The pinions on the Goodman and Morgan Gardner locomotive must be guarded. Also head lights on same must be installed. Other conditions satisfactory.

GREASY GAP COAL COMPANY, Wheeler, Ky.

This mine was inspected on March 10, 1920, by J. H. Fallon. Ventilation, timbering and drainage satisfactory. No dangerous conditions noted.

CARTER COAL COMPANY, Warren, Ky.

This mine was inspected on March 11, 1920, by J. H. Fallon. Ventilation, timbering and drainage very good. This mine shows a vast improvement by the present inside management. No dangerous roof conditions noted.

CARTER COAL COMPANY, Trospen, Ky.

This mine was inspected on March 11, 1920, by J. H. Fallon. Mine in good condition relative to ventilation, timbering and drainage. This mine shows marked improvement by the present mine foreman.

CHARLES COAL COMPANY, Artemus, Ky.

This mine was inspected on March 12, 1920, by J. H. Fallon. This mine is in good condition in all respects and is receiving careful attention by the present foreman. No dangerous conditions noted.

JACKSON COAL COMPANY, Artemus, Ky.

This mine was inspected on March 12, 1920, by J. H. Fallon. This mine consists entirely of robbing working and is being well taken out and is receiving careful and close attention by the present foreman. No dangerous conditions were noted.

WHEELER COAL COMPANY, Artemus, Ky.

This mine was inspected on March 12, 1920, by J. H. Fallon. This mine consists of robbing work which is receiving careful attention by the management. No dangerous roof or other conditions noted.

PAGE JELICO COAL COMPANY, Elys, Ky.

This mine is located on the L. & N. R. R. This mine is working the Dean seam and is a machine mine, motor haulage. This mine was inspected by J. H. Fallon on February 3, 1920. Ventilation, timbering and drainage very good. Some scaling is needed in the tunnel; also on each end of sidetrack. Have this scaling done at once. Other conditions satisfactory.

KNOAWHA KNOX COAL COMPANY, Elys, Ky.

This mine is located on the L. & N. R. R. at Elys, Ky., and is working the Dean seam. Machine mine coal is gathered by mules and is trammed by motor. This mine was inspected by J. H. Fallon on February 5, 1920. Ventilation, timbering and drainage good. Roof conditions excellent. Other conditions satisfactory.

**SUN COAL COMPANY, Successor to Allid Coal Company,
Flat Lick, Ky.**

This mine is located on L. & N. R. R. and is Blue Gem mine; solid shooting and is mule haulage. This mine was inspected by J. H. Fallon on February 4, 1920. Ventilation, timbering and drainage satisfactory. No dangerous roof or other conditions noted.

STINES COAL COMPANY, Red Ash, Ky.

Ventilation very weak. Timber and drainage good. Rush the work of installing a furnace in compliance with section 1, article 8 of the Kentucky Mine Laws. Other conditions satisfactory.

PROCTOR COAL COMPANY, Red Ash, Ky.

This mine was inspected by J. H. Fallon on February 10, 1920. Conditions in and around this mine are satisfactory.

**C. C. VERMILLION COAL COMPANY, Successors or Lessee
from East Tennessee Coal Company, Jellico, Tenn.**

This mine was inspected by J. H. Fallon on February 10, 1920. Timber, drainage satisfactory. Ventilation weak. Furnish mine foreman with brattice material and repair all open breaks through on entries. All other conditions satisfactory.

**TRIUNE COAL COMPANY, Lessee Tiffany Coal Co., Pine-
ville, Ky.**

I visited this mine on March 13, 1920. This mine was not working on above date and the inspector was unable to make an inspection; could not find anyone about the mine.

BURNS BLUE GEM COAL COMPANY, Gatliff, Ky.

This mine was inspected by J. H. Fallon on February 19, 1920. Ventilation and timbering satisfactory. Drainage poor. Clean out ditches and keep the main entry reasonably dry. Other conditions satisfactory. This mine has been taken over by Gatliff Coal Co. and is now operated by that company.

WALLEN JELLICO COMPANY, Gatliff, Ky.

This mine was inspected by J. H. Fallon on February 19, 1920. This mine is ventilated by furnace producing 5,200 cubic feet of air per minute, supplying an average of 12 men and is well distributed through the workings. Other conditions satisfactory.

MAMMOTH BLUE GEM COAL COMPANY.

Gatliff, Ky.

This mine was inspected by J. H. Fallon on February 19, 1920. Ventilation, timbering and drainage satisfactory. No dangerous roof or other conditions noted. Mine No. 1.

MAMMOTH BLUE GEM COAL COMPANY.

Gatliff, Ky.

This mine was inspected on February 19, 1920, by J. H. Fallon. This mine is known as Mine No. 2. This mine is ventilated by a 4½-foot disc fan, producing 16,740 cubic feet of air per minute. Well distributed through the workings, supplying an average of 30 men. Timbering and drainage satisfactory. No dangerous roof or other conditions noted.

DRAKE BLUE GEM COAL COMPANY, Neversdale, Ky.

This mine was inspected on February 20, 1920, by J. H. Fallon. Ventilation, timbering and drainage satisfactory. Mine not running on day of inspection. No dangerous roof or other conditions visible. Mine No. 1.

DRAKE BLUE GEM COAL COMPANY, Neversdale, Ky.

This mine was inspected on February 20, 1920, by J. H. Fallon. Ventilation, timbering and drainage satisfactory. Mine not running on day of inspection. No dangerous roof

or other conditions visible. Mine No. 2. This is ventilated by 4-foot disc fan producing 8,220 cubic feet per minute, supplying an average of 30 men. All visible conditions very satisfactory.

PATTERSON CREEK COAL COMPANY, Pollyton, Ky.

This mine was inspected on February 20, 1920, by J. H. Fallon. Mine not working on day of inspection on account of no railway cars; and the gasoline engine driving the fan being temporarily out of commission, no record of the ventilation was taken. All visible conditions in and around the mine were satisfactory.

DAL BLUE GEM COAL COMPANY, Williamsburg, Ky.

This mine was inspected on February 20, 1920, by J. H. Fallon. Ventilation very deficient on second left, also on second right. Build a good air-tight door across first right entry to force air up main entry. Build and repair all brattices on section right entry. Stop the work in second right heading until all break throughs are cut to get the ventilation to the last break through. Have some good clay hauled in the mine and put at convenient places for miners; and same used by the miners for tamping shot holes.

BUNCH BLUE GEM COAL COMPANY, Williamsburg, Ky.

This mine was inspected on February 20, 1920, by J. H. Fallon. Ventilation at this mine is with natural current, produced by three or four openings which is sufficient for the eight men working. Other conditions satisfactory.

BESSIE ALLEN COAL COMPANY, Williamsburg, Ky.

This mine was inspected on February 20, 1920, by J. H. Fallon. This mine is ventilated by a 32-inch disk fan, producing 3,850 cubic feet of air per minute, which is well distributed through the workings supplying an average of 20 men. No dangerous roof or other conditions noted.

SAXTON COAL COMPANY, Saxton, Ky.

This mine was inspected by J. H. Fallon on Feb. 12, 1920. Timbering and drainage, very good. Ventilation somewhat deficient. Rush the completion of your aircourse to the outside and install your fan as soon as possible. Other conditions satisfactory.

JELLICO COAL MINING COMPANY, Mountain Ash, Ky.

This mine is located on L. & N. R. R., at Mountain Ash. This mine is known by Tacket Creek and No. 3 Main Mine. This mine was inspected by J. H. Fallon on Feb. 12, 1920. All conditions in and around this mine are very satisfactory. In justice to the present inside management.

BON JELLICO COAL COMPANY, Bon Jellico, Ky.

This mine was inspected by J. H. Fallon on Feb. 14, 1920. Ventilation, timbering and drainage, very good. Other conditions satisfactory.

ESTEES JELLICO COAL COMPANY, Pleasant View, Ky.

This mine was inspected by J. H. Fallon on Feb. 17, 1920. Ventilation, timbering and drainage at this mine is very satisfactory.

**NEW WATTS CREEK JELLICO COAL COMPANY,
Wofford, Ky.**

The ventilation is weak. Timbering and drainage, good. Keep close watch over the men engaged in robbing work. Keep a good supply of timbers on hand at all times and do not allow any shooting during working hours, do the shooting in the evening when the miners finish their day's work. All other conditions satisfactory.

**KRESAGE COAL COMPANY, Successors to the MOSS
JELLICO COAL COMPANY, Wofford, Ky.**

This mine was inspected by J. H. Fallon on Feb. 17, 1920. All conditions in and around this mine satisfactory. No dangerous roof conditions noted.

MAHAN JELLICO COAL COMPANY, Packard, Ky.

This mine was inspected by J. H. Fallon on Feb. 18, 1920. Ventilation, timbering and drainage, very good. No dangerous conditions noted. Other conditions in and around this mine are satisfactory.

MAHAN JELLICO COAL COMPANY, Packard, Ky.

This mine was inspected by J. H. Fallon on Feb. 18, 1920. This mine is known as Old Side. Both these mines are machine mines, punchers and electric machines. All conditions in and around this mine are very satisfactory.

POLLY COAL COMPANY, Packard, Ky.

This mine is located on a branch line of the L. & N. R. R., at Packard, Ky. This mine was inspected by J. H. Fallon on Feb. 18, 1920. This mine is yet in the stage of development. All conditions in and around the mine are very satisfactory.

GATLIFF COAL COMPANY, Gatliff, Ky.

This mine is located on L. & N. R. R., at Gatliff, Ky. This mine was inspected by J. H. Fallon on Feb. 19, 1920. This mine is in good condition as to ventilation, timbering and drainage. No dangerous roof or other conditions noted. This mine is known as No. 1 Mine.

GATLIFF COAL COMPANY, Gatliff Mine No. 2.

Gatliff, Ky.

This mine was inspected by J. H. Fallon on Feb. 19, 1920. Ventilation, timbering and drainage very good. No dangerous roof or other conditions noted. Keep close watch over men engaged in robbing work. Keep sufficient timber on hand for same, other conditions satisfactory.

GATLIFF COAL COMPANY, Gatliff Mine No. 3.

Gatliff, Ky.

This mine was inspected on Feb. 19, 1920, by J. H. Fallon. This mine is ventilated by a 10 foot disk fan, producing 31,620 cubic feet of air per minute, supplying an average of 100 men.

Ventilation very good, timbering and drainage very satisfactory. No dangerous roof conditions noted.

ARCHER BLUE GEM COAL COMPANY.

Gatliff, Ky.

This mine was inspected by J. H. Fallon on Feb. 19, 1920, and was found in the following condition as to ventilation, timbering very good. Drainage is bad, clean out ditch in drift mouth and keep water siphoned out of swag on main entry. Other conditions satisfactory. This mine has been taken over by Gatliff Coal Company.

MAIN JELICO MOUNTAIN COAL COMPANY, Kensee, Ky.

This mine is located on the Knoxville Division of the L. & N. R. R. This mine is working the Jellico seam and is a machine mine and mule haulage. This mine was inspected by J. H. Fallon on Feb. 10, 1920. This mine is known as New Side. Conditions in and around this mine are very satisfactory.

MAIN JELICO COAL COMPANY.

Gatliff, Ky.

This mine was inspected by J. H. Fallon on Feb. 10, 1920. This mine is known as Old Side. Ventilation, timbering and drainage satisfactory. Keep close watch over men engaged in robbing work. Other conditions satisfactory. This mine is also machine mine, mule haulage and mostly all robbing work.

BURK HOLLOW COAL COMPANY, Jellico, Tenn.

This mine is located on L. & N. R. R., at Jellico, Tenn. This is a machine mine and mule haulage. Jellico seam. This mine was inspected by J. H. Fallon on Feb. 11, 1920. All conditions in and around this mine are satisfactory. This is a Blue Gem Mine.

EVANS JELICO COAL COMPANY, Jellico, Tenn.

This mine is located at Jellico on L. & N. R. R. This mine is working the Jellico seam. Coal is gathered with mules and is trammed by motor. Solid shooting. This mine was inspected

ly J. H. Fallon on Feb. 11, 1920. Ventilation good. Timbering and drainage satisfactory. Other conditions in and around this mine satisfactory.

FALLS BRANCH COAL COMPANY, Wooldridge, Tenn.

This mine was inspected by J. H. Fallon on Feb. 14, 1920. The Kentucky extension of this mine being abandoned, no inspection was made. Please notify Department of Mines, Lexington, Ky., if the Kentucky portion of this mine is again operated.

KRESAGE COAL COMPANY, Williamsburg, Ky.

This mine was inspected on March 3, 1920, by J. H. Fallon. Ventilation and timbering good. Drainage satisfactory. Other conditions in and around the mine satisfactory.

NORTH JELLICO COAL COMPANY, Wilton, Ky.

This mine was inspected on March 4, 1920, by J. H. Fallon. Ventilation, drainage and timbering, very satisfactory. No dangerous roof conditions noted. Keep close watch on men doing robbing work. This mine is known as Herican Ridge Mine.

NORTH JELLICO COAL COMPANY, Wilton, Ky.

This mine was inspected on March 6, 1920, by J. H. Fallon. Ventilation, timbering and drainage, extra good. This mine is receiving careful attention from the present inside management. This is Olive Hill Mine.

Fifth District, Harlan, Ky.

Hon. L. Blenkinsopp,
Chief Inspector of Mines,
Lexington, Ky.

Dear Sir:—

I hereby submit to you my annual report, which starts from the date of my appointment as Asst. Inspector of Mines, June 18, 1920 until Dec. 31, 1920.

I wish to thank the operators of my district for the courtesy they have shown me while making inspection of their mine, and

for the co-operation with the Department of Mines, and especially thank them for the data furnished me in compiling my annual report.

The 5th. District consists of Harlan County and 20 mines in Bell County, a total of 100 mines, since my appointment I have made 122 inspections and have spent 13 days at Lexington, Ky., as a member of the board of examiners and receiving instructions from the Chief Inspector of Mines.

I do not have a complete list of the fatal accidents that occurred in the district for the year of 1920. But the number I submit is entirely too many and I hope to reduce that number considerably for 1921. But in order to do so the Operators will have to co-operate with the Department of Mines, as there are 100 mines in the 5th district, and I cannot make an inspection of each mine every four months as required by law.

We are urgently in need of new mining laws to protect the life and health of the men employed therein.

Trusting this will meet your approval, I remain,

Yours truly,

LACY LAXTON, Asst. Inspector of Mines.

WHITE STAR COAL COMPANY.

W. L. Hammons, General Manager; Saul Booze, Superintendent; Tom Delph, Mine Foreman; Main Office, New York; Mine Office, White Star, Ky.; Mine No. 2.

This mine is located on Urings Creek at White Star, Ky., in Harlan County and on the L. & N. R. R., about 9 miles from Harlan, Ky., and was inspected Sept. 20, 1920 and found to be in good condition on date of inspection. This is a drift mine working the Wallings seam of coal and coal is 6 feet free from parting, sandstone and slate roof and fire clay bottom. Ventilation is produced by 8 foot American Blower fan, mule and motor haulage, coal is gathered by mules and 3 G. E. 6 ton motors to side tracks, then trammed to the head house by one 10 ton G. E. motor, the coal is lowered from head house by gravity plane in mine cars a distance of 2,460 feet, where it is taken to the tipple by a 27 ton steam locomotive.

Mine No. 3. James Booze, Mine Foreman.

This mine was inspected Sept. 20, 1920 and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine working Harlan seam of coal and coal averages about 44 inches, free from parting. Slate and sandstone roof and slate bottom. Ventilated by 4 foot, S. B. Stine fan, mule and electric haulage. Coal is gathered and trammed to head house by four mules and one seven and one-half ton G. E. motor, coal is lowered from head house by aerial tramway 450 feet, 22 degree pitch to a bin at the lower tramway where mine cars are loaded from and trammed to the tippie, by a 20 ton Baldwin Steam locomotive and 3 C. E. 6 G. E. machines.

Mine No. 1. Edd Warren, Mine Foreman.

This mine was inspected Sept. 20, 1920 and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine working the Harlan seam of coal and coal averages about 44 inches, free from parting, has ordinary good slate roof, with fire clay bottom. Ventilated by 6 foot, disc fan. Mule and motor haulage. Coal is gathered to the side track with mules and trammed to the head house with a 6 ton G. E. motor, the coal is all under-cut before being shot with 3 C. E. 6 Sullivan mining machines. The coal is lowered from the head house in mine cars by gravity plane 640 feet, 25 degree pitch, to the tippie.

No. 4 Mine has been idle for sometime and was not working when I made this inspection and I did not collect any data from this mine for this report. The coal from all these mines is brought to a wooden constructed tippie, equipped with shaker screens.

BANNER FORK COAL COMPANY.

E. B. Ford, President; Abner Lunsford, General Manager; L. C. Skeen, Superintendent; A. J. Hyden, Mine Foreman; Main Office, Detroit, Mich.; Mine Office, Kentenia, Ky. Mine No. 1.

This mine is located on Wallins Creek at Kentenia, Ky., in Harlan County and on the L. & N. R. R., about 16 miles from Harlan, Ky., and was inspected on Sept. 29, 1920, and found to be in fair condition on date of inspection, notice was served

covering all defects. This is a drift mine working the Wallins seam of coal and coal is 6 foot, 4 inches free from parting. Slate roof and fire clay bottom. Ventilation is produced by 4 foot disc fan. Coal is gathered and trammed to head house with 14 mules and one 6 ton Westinghouse G. E. motor. Coal is lowered from head house 3,420 feet, in mine cars 38 degree pitch, to a wooden constructed tippie equipped with W. J. Savage shaker screen including loading boom. Coal is undermined before being shot with 5 G. E. No. 6 Sullivan mining machines. Electric hoist with man car is used to take the men to and from work. Capacity per day 1,000 tons.

Mine No. 2. W. B. Burton, Mine Foreman; Paris Mullins, Superintendent.

This mine is located one mile above No. 1 Mine on Wallins Creek and was inspected Sept. 22, 1920 and found to be in good condition on date of inspection. This is a drift mine working the Wallins seam of coal and coal is 6 foot, 4 inches, free from parting. Slate roof and fire clay bottom. Ventilation is produced by 4 foot disc fan. Coal is under-cut before being shot with 3 Sullivan mining machines. One 10 ton Westinghouse motor is used to gather and haul the coal to the head house where it is lowered in mine cars by gravity plane 2,400 feet, 45 degree pitch to a wooden constructed tippie equipped with shaker screens, capacity, 700 ton per day. First aid supplies are kept in a special house at the mine.

HARLAN CUMBERLAND COAL MINING COMPANY.

W. B. Stevens, President; C. J. Bartels, General Manager and Superintendent; N. J. Wilburn, Mine Foreman; Main Office, Northfork, W. Va.; Mine Office, Dione, Ky.

This mine is located on Poor Fork in Harlan County on the L. & N. R. R., 16 miles from Harlan, Ky., and was not inspected because the mine was not in operation until Nov. 11, 1920. This is a drift mine working Harlan seam of coal and coal is 45 inches, free from parting. Standstone roof and fire clay bottom. Furnace ventilation, coal at present is being shot from the solid, mule haulage, the coal is lowered by aerial tramway 812 feet, 10 degree pitch to a wooden constructed tippie, sta-

tionary screens, two grades of coal being loaded namely, lump and slack. They are at present at work installing an electric plant, then the mine will be electrically equipped, capacity, 150 tons per day.

WILSON BERGER COAL COMPANY.

C. E. Wilson, President; S. V. Preston, General Manager and Superintendent; Earl Jones, Mine Foreman. Main office, Crewe, Va. Mine office, Grays Knob, Ky. Grays Branch Mine.

This mine is located on Martins Fork at Grays Knob, Ky., in Harlan County, on the L. & N. R. R., 5 miles from Harlan, Ky., and was inspected September 14, 1920, and found to be in good condition on date of inspection. This is a drift mine working the Harlan and Wallins seam of coal and coal is 42 inches and 54 inches respectively, including an 11-inch parting in the Wallins seam. Slate and sandstone roof and fire clay bottom. The Wallins seam is 900 feet above the Harlan seam. The coal is lowered to the Harlan seam in mine cars, one Westinghouse 6-ton motor, and 1 Arc-wall machine being used in the Wallins seam. Ventilated with 8-foot centrifugal fan. One Goodman coal cutting machine, one Westinghouse 5-ton motor, ventilated by a 6-foot centrifugal fan, are used in the Harlan seam. Ten-ton monitors are used to convey the coal down incline to a wooden constructed tippie, equipped with shaker screens.

MILL CREEK MINE.

This mine is located about one-half mile from Grays Branch mine and was inspected September 15, 1920, and found to be in good condition on date of inspection. Drift mine working the Smith seam of coal and coal averages 10 feet including a 10-inch parting about the center of the vein. Slate and sandstone roof, fire clay bottom. Ventilation is produced by a 6-foot centrifugal fan. 2 Arc-wall machine used for cutting the coal, three 5-ton and one 6-ton Westinghouse motors, one 10-ton Jeffrey motor. From the drift mouth to head house is 6,300 feet, 5 per cent grade. In favor of loaded trip 15-ton monitors are used on the incline to transfer the coal to the

tipple. Length of incline 2,600 feet, 30 degree pitch. Wooden constructed tipple equipped with shaker screens. Power furnished by Kentucky Utilities Co. Capacity 1,000 tons per day.

MOLUS COAL COMPANY.

M. T. Roach, President; T. T. Wright, Vice-President; C. E. Armitage, Treasurer; G. H. Marting, General Manager; L. F. Vermillion, General Superintendent; V. W. Baker, Mine Superintendent; J. W. Gibson, Purchasing Agent; H. Garland, Mine Foreman. Main Office, Charleston, W. Va. Mine office, Molus, Ky. Molus Mine.

This mine is located on the L. & N. R. R., 20 miles below Harlan, Ky., toward Pineville, Ky., in Harlan County and was inspected October 4, 1920, and found to be in fair condition on date of inspection. Notice was served covering all defects. This is a drift mine working the Harlan seam of coal and coal is 48 inches including 4-inch parting 6 inches from the roof. Slate roof, fire clay bottom. Has own electric plant installed; one 150 H. P. Casey Hedges boiler, one Westinghouse Steam Turbine, one Westinghouse D. C. generator, 100 K. W., connected with steam turbine. Ventilated with 4-foot S. B. Stine fan driven with 10 H. P. General Electric motor. Two C. E. No. 7 Sullivan ironclad short-wall machines, one C. E. 6 Sullivan short-wall machine, are used for under-cutting the coal before being shot. Mule and electric haulage. 3 mules and 2 ponies are used to gather coal to the side track. One 4-ton C. E. and one 5-ton Goodman motor used to haul the coal to the head house, where it is conveyed by aerial tramway 4,700 feet. Equipped with 20 buckets, each has a carrying capacity of 1,500 pounds. Capacity per 8 hours, 500 tons. Wooden constructed tipple. Mine run is the only grade of coal loaded. First aid supplies are kept in a special house at the mine. Capacity of mine 200 tons per day.

KENTUCKY HARLAN COAL COMPANY

S. Douglas, General Manager and Superintendent; R. R. Sents, Mine Foreman. Head office, Harlan, Ky. Tasker Mine.

This mine is located in Harlan County and on the L. & N. R. R., 300 yards above the L. & N. station, Harlan, Ky., and

was inspected July 17th, 1920. Found to be in good condition on that date. The Harlan seam of coal is being worked and the seam is 50 inches including a 5-inch parting. Slate and sandstone roof. Equipment: Two Sullivan coal cutting machines, one 4 $\frac{1}{4}$ ton Whitman battery motor; one 5-foot S. B. Stine fan propelled by 15 H. P. motor. Aerial tramway 900 feet with 35 degree pitch. Wooden constructed tippie including shaker screens.

HARLAN COAL & COKE COMPANY.

W. M. Grant, General Manager and Superintendent; B. Warren, Mine Foreman. Head office, High Splint, Ky., Harlan Coal & Coke Mine.

This mine is located on Clover Fork at High Splint, Ky., Harlan County, and on L. & N. R. R., 13 miles from Harlan, Ky., and was inspected July 19, 1920. Found to be in fair condition as to general safety. Working Harlan seam of coal and the seam is 46 inches. Sandstone and slate roof. Coal tippie height. Solid shooting; mule haulage; furnace ventilation; wooden constructed tippie.

PARIS COAL COMPANY.

A. M. Gregory, General Manager; A. M. Paris, Superintendent; A. M. Paris, Mine Foreman. Head office, High Splint, Ky., Kenlew Mine.

This mine is located on Clover Fork at High Splint, Ky., Harlan County, and on L. & N. R. R., 13 miles from Harlan, Ky., and was inspected July 19, 1920. Found to be in good condition on date of inspection. Working Harlan seam of coal and seam is 42 inches. Slate roof. Coal tippie height. Solid shooting; mule haulage; furnace ventilation; wooden constructed chute which railroad cars are loaded from.

HARLAN CO-OPERATIVE COAL COMPANY.

A. J. Wood, General Manager and President; W. S. Wood, Superintendent; W. G. Gum, Mine Foreman. Main office, Evarts, Ky.

This mine is located on Yocum Creek at Evarts, Ky., Harlan County on the L. & N. R. R., 9 miles from Harlan, Ky., and

was inspected September 10, 1920, and found to be in good condition on date of inspection. This is a drift mine working the Darby seam of coal and coal is 44 inches including a 3-inch parting 6 inches from the bottom. Slate roof, fire clay bottom. Furnace ventilation, one Sullivan machine; mule haulage. Coal is tipped into a 700 foot, 40 degree pitch chute, mine run coal being loaded from this chute. Power furnished by Kentucky Utilities Co.

CROWN BY-PRODUCT COAL COMPANY.

C. B. Wilburn, President and Manager; R. R. Johnson, Vice-President and Treasurer; H. P. Ridwell, Secretary; J. B. Dupuy, Mine Superintendent; J. T. Wilson, Mine Foreman. Main office, Chevrolet, Ky.

This mine is located on Turtle Creek at Chevrolet, Ky., in Harlan County, and on the L. & N. R. R., and is about 5 miles from Harlan, Ky., and was formerly the Williams By-Product Coal Co. This is a drift mine developing the Harlan seam and coal is 54 inches, free from partings. Slate and sandstone roof and hard fire clay bottom. This mine was inspected September 10, 1920, and found in good condition on date of inspection. The mine is equipped with 2 Goodman machines used for under-cutting the coal before being shot. Coal is gathered and hauled to head house by two 5-ton Jeffrey motors, coal is lowered from the head house by conveyor 599 feet, 20 degree pitch to a wooden constructed tippie equipped with shaker screens; ventilation is produced by 6-foot disc fan. Power furnished by Kentucky Utilities Co. Capacity 600 tons per day. First aid supplies are kept in a special house at the mine; safety first is persistently impressed on all employees.

KING HARLAN COAL COMPANY.

A. R. Tinsley, General Manager; James Hyatt, Mine Foreman. Main office, Cincinnati, Ohio; Mine office, Kildav, Ky.

This mine is located on Clover Fork, at Kildav, Ky., in Harlan County, 7 miles from Harlan, Ky., and was inspected August 11, 1920, and found to be in good condition on date of inspection. The Harlan seam of coal is being worked and coal is 48 inches including a 2½-inch parting. Sandstone roof,

fire clay bottom. This mine is equipped with four straight face Goodman machines, the coal is gathered and hauled with three storage battery motors, made by the Ironton Engine Co.; one gasoline motor, made by the Milwaukee Locomotive Mfg. Co. The mine is ventilated by a 14-foot Jeffrey fan. Coal is lowered from the head house in mine cars to the tippie a distance of 600 feet, 15 degree pitch. Wooden constructed tippie. Rhodiary dump; Woods shaker screens with loading boom. Received its power from Kentucky Utilities Co.

Wm. D. Boyer, Trustee; G. H. Marting, General Manager; John Warneke, Superintendent; C. W. McCarter, Mine Foreman. Head office, Cincinnati, Ohio; mine, Verda, Ky. Bear Branch Mine.

This mine is located on Clover Fork at Verda, Ky., in Harlan County, 6 miles from Harlan, Ky., and was inspected on August 12, 1920, and found to be in good condition on date of inspection. This mine is a drift mine working the Harlan seam of coal and coal is 48 inches, free from partings. Slate roof, fire clay bottom. Ventilation is produced by 4-foot disc fan. Coal is gathered and hauled to head house by one 5-ton Goodman and one 6-ton Westinghouse motors. Coal is lowered by gravity plane in mine cars 900 feet, 20 degree pitch to a wooden constructed tippie equipped with shaker screens, including loading boom. Capacity 500 tons per day. Power furnished by Kentucky Utilities Co. First aid supplies are kept in special house at the mine.

BURNWELL COAL COMPANY.

I. L. Shor, President and General Manager; B. L. Sillards, Superintendent and Mine Foreman; Main Office, Hulen, Ky.

This mine is located in Bell County on Puckets Creek, one mile from Felder and on the L. & N. R. R., 25 miles from Harlan, Ky., and was inspected Nov. 8, 1920, and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine undecided as to the name of seam being worked. Coal average 36 inches, including a 2 inch parting 3 inches from the roof. Slate and sandstone roof, slate bottom. Coal is being worked from solid, mule haulage. Venti-

lation is produced by 4 foot disc fan propelled by gasoline motor, mine cars are tipped into a chute 70 feet, railroad cars are loaded from this chute. Mine run is the only grade loaded, capacity 50 tons per day.

BLACK SNAKE COAL COMPANY.

James Forester, General Manager; Chad Howard, Superintendent; Tom Barnett, Mine Foreman; Main Office, Hulen, Ky.

This mine is located on Puckets Creek, 3 miles above Felder in Bell County and on the L. & N. R. R., 27 miles from Harlan, Ky. Did not make an inspection of this mine the day I was there as they were not running. This is a drift mine and name of seam being developed, unknown, coal averages 42 inches, free from parting. Slate roof and slate bottom. Ventilation is produced by furnace. Coal is shot from the solid, mule haulage, coal is tipped in to an 80 foot chute a mine is loaded from this chute and trammed 100 feet where it is tipped in railroad cars. Mine run is the only grade loaded, capacity 50 tons per day.

CREECH DUFF COAL COMPANY.

J. H. Bolton, Superintendent; Ross Duff, Mine Foreman. Main Office, Pineville, Ky.

This mine is located near Luce, Ky., in Bell County and on the L. & N. R. R., 25 miles from Harlan, Ky., and was inspected Dec. 21, 1920, and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine developing the Mason seam of coal and coal is 36 inches. Slate roof and fire clay bottom. Natural ventilation. Coal is shot from the solid, mule haulage, coal is lowered by gravity plane in mine cars 600 feet, wooden constructed tipple, mine run is the only grade loaded, capacity 100 ton per day.

LAYMON CALLOWAY COAL COMPANY.

E. S. Smothers, Superintendent; W. H. Keys, Mine Foreman; Main Office, Hulen, Ky.

This mine is located near Luce, Ky., in Bell County and on the L. & N. R. R., 25 miles from Harlan, and was inspected

Dec. 13, 1920, and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine developing the Mason seam of coal and averages 36 inches. Slate roof and fire clay bottom. Furnace ventilation, coal is shot from the solid, mule haulage, coal is lowered by gravity plane in a chute 200 feet, railroad cars are loaded from the chute, mine run is the only grade loaded, capacity 100 tons per day.

SOUTHERN MINING COMPANY.

T. B. Mahan, President; N. B. Perkins, Vice-President and General Manager; E. C. Mahan, Secretary-Treasurer; F. E. Gilbert, General Superintendent; L. C. Chaffin, General Mine Foreman; Mine Office, Balkan, Ky., Balkan Mine; Main Office, Williamsburg, Ky.

This mine is located at Balkan, Ky., one mile from Tejay, Ky., in Bell County, and on the L. & N. R. R. This is a drift mine developing the Creech seam of coal and coal averages 50 inches, free from parting. Slate and sandstone and slate bottom, and was inspected Dec. 15, 1920, and found to be in good condition except the electric wires were not guarded, notice was served covering this. This mine is ventilated with 15 foot fan, eight C. E. 6 and 7 Sullivan mining machines are used for under-cutting before being shot. Coal is gathered and hauled to head house with four 4 ton G. E. motors and one 4 ton, two 10 ton, and one 6 ton Westinghouse motors, from there the coal is lowered by gravity plane in 15 ton monitors 1,800 feet, about 40 degree pitch, to a wooden constructed tippie equipped with shaker screens including boom, capacity 1,500 tons per day. Power furnished by Kentucky Utilities Company. First Aid supplies are kept in a special house at the mine. A special car with electric hoist is used to convey the men to and from work.

MATHEL COAL COMPANY.

J. C. Hoskin, President; John Morgan, Treasurer; John Hoskin, General Manager; D. B. Robison, Mine Foreman; Main Office, Calloway, Ky.

This mine is located on the L. & N. R. R., at Calloway, Ky.,

in Bell County. This is a drift mine developing the Hanse seam of coal and coal 6 foot, including 7 inches, parting near the bottom. Slate roof and fire clay bottom. This mine was inspected Dec. 15, 1920 and found to be in fair condition on date of inspection, notice was served covering all defects. Ventilation is produced by 4 foot disc fan, coal is undermined with 2 C. E. 6 Sullivan mining machines before being shot. Coal is gathered to side tracks with mules than hauled to head house with one 4 ton Jeffrey motor, then lowered by aerial tramway 1,150 feet, to a bin where the railroad cars are loaded from. Capacity 250 tons per day.

KENTUCKY CARDINAL COAL CORPORATION.

J. C. Stras, President and General Manager; E. J. McQuail, Vice-President; George Dunglinson, Secretary; J. Y. Crawford, Superintendent; S. B. Surgener, Mine Foreman; Main office, Cardinal, Ky.; Cardinal Mine.

This mine is located on L. & N. R. R., at Cardinal, Ky., in Bell County, and was inspected Dec. 13, 1920, and found to be in good condition on date of inspection. This is a drift mine developing the Harlan seam of coal and coal is 52 inches, including a 2 inch parting, hard slate roof and fire clay bottom. Ventilation is produced by 5 foot disc fan, two C. E. 7 and one C. E. 6 mining machines are used for under-cutting the coal before being shot, coal is gathered and hauled to head house with one 10 ton and one 5 ton Goodman motors, one 4 ton and one 5 ton Jeffrey motors, then it is lowered by gravity plane in 15 ton monitors 2,000 feet to a wooden constructed tippie, mine run is the only grade of coal loaded. Capacity 600 tons. Power furnished by Kentucky Utilities Company.

SOUTHERN MINING COMPANY.

T. B. Mahan, President; E. C. Mahan, Secretary-Treasurer; N. B. Perkins, General Manager; F. C. Mahan, Superintendent; O. L. Flannery, Mine Foreman; Main Office, Williamsburg, Ky.; Mine Office, Colmar, Ky.; Amru Mine.

This mine is located on Yellow Creek at Calmar, Ky., in Bell County and on the L. & N. R. R. And was inspected

Dec. 17, 1920, and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine developing the Mason seam of coal and coal is 38 inches. Slate and sandstone roof and fire clay bottom. Ventilation is produced by a 10 foot, S. B. Stine fan, 5 C. E. 6 mining machines are used to undercut the coal before being shot. Coal is gathered and hauled to the head house in one 6 ton and 8 ton G. E. motors, from there it is conveyed down to the tippie 350 feet, by Link Belt conveyor, which is operated by one 25 H. P. A. C. motor. Wooden constructed tippie equipped with shaker screens. Power is furnished by Kentucky Utilities Company.

CRANE CREEK COAL COMPANY.

W. T. Roach, General Manager; T. T. Wright, Assistant General Manager; R. L. Mattingly, Superintendent; Eugene Steel, Mine Foreman. Crane Creek Mine. Main Office, Charleston, W. Va. Mine Office, Colmar, Ky.

This mine is located on Yellow Creek at Colmar, Ky., in Bell County, and on the L. & N. R. R., and was inspected Dec. 20, 1920 and found to be in good condition on date of inspection. This is a drift mine working the Mason seam of coal and coal is 49 inches free from parting. Slate roof and fire clay bottom. Ventilation is produced by 4 foot disc fan. This is altogether a pick mine, mules gather the coal to the side track and is conveyed to the head house by one 3½ ton Whitcomb gasoline motor, then it is lowered by gravity plane in 3½ ton monitors 1,140 feet, to a wooden constructed tippie. Run of mine is the only grade loaded, capacity 300 ton per day. First aid supplies are kept in a special house at the mine.

VARILLA MINING COMPANY.

E. H. Jewett, President; Walter Brooks, Vice-President; J. T. Bradley, General Manager; J. R. Fritts, Superintendent and Mine Foreman. Main Office, Cincinnati, O. Branch Office, Pineville. Mine Office, Varilla, Ky.

This mine is located at Varilla, Ky., in Harlan County and on the L. & N. R. R., and was inspected Dec. 16, 1920, and found to be in fair condition, notice was served covering all defects.

This is a drift mine working the Harlan seam of coal and coal is 48 inches. Slate roof and fire clay bottom. Ventilation is produced by 4 foot Centrifugal fan No. 1 opening is all robbing work and will soon be worked out, no machines used in this opening, in No. 2 opening the coal is under-cut with 3 C. E. 6 Sullivan mining machines. Coal is gathered and hauled to the head house by one 10 ton, one 6 ton, G. E. motors, one 6 ton Jeffrey motor, two 5 ton Goodman motors, where it is lowered by gravity plane in mine cars, 1,400 feet to a wooden constructed tippie equipped with automatic dump and bar screens, three grades of coal are loaded. namely lump, nut and slack. Capacity 200 tons per day. Power is furnished by Kentucky Utilities Company.

PLATTS FORK MINING COMPANY.

J. W. Montgomery, President and General Manager; H. Bishop, Vice-President; J. T. Miller, Secretary and Treasurer; J. P. Holsing, Mine Foreman. Main office, Ashland, Ky.; mine office, Wallins Creek, Ky.

This mine is located at Terrys Fork at Wallins Creek, Ky., and on the L. & N. R. R. in Harlan County, 14 miles from Harlan, Ky. I did not make an inspection of this mine as the mine was not working the day that I was there. This is a slope mine which is 80 feet below tippie height, developing the Bull Dog seam of coal and coal 42 inches, 21 inches of bituminous coal and 21 inches of cannel coal. Sandstone roof and fire clay bottom. Ventilation is produced by 5-foot disc fan, propelled by gasoline motor. Mule and rope haulage. Coal is gathered to the side track with mules, then hauled to the tippie with rope steam hoist. Coal is shot from the solid. Coal is tipped from mine cars into railroad cars. Mine run is the only grade loaded.

HULEN COAL COMPANY.

Hary Brooking, President; Dr. Hendring, Superintendent; Martin Lunce, Mine Foreman. Main office, Pineville, Ky.

This mine is located on Puckets Creek $\frac{3}{4}$ of a mile from Felder in Bell County and on the L. & N. R. R. $24\frac{3}{4}$ miles from Harlan, Ky., and was inspected November 8, 1920, and

found to be in fair condition on date of inspection. Notice was served covering all defects. This is a drift mine and name of seam being developed is unknown. Coal is $6\frac{1}{2}$ feet including a 14-inch parting in center of seam. Slate roof and slate bottom. Ventilation is produced by furnace. Mule haulage. Cars are tipped into a chute 40 feet. Two-ton car is loaded from this chute and trammed 100 feet where it is tipped into railroad cars. Mine run is the only grade loaded. Capacity 50 tons per day.

PATHS FORK COAL COMPANY.

W. H. Bullock, General Manager; Charles Bullock, Superintendent; Charles Bullock, Mine Foreman. Main office, Hulen, Ky.

This mine is located on Puckets Creek $\frac{1}{2}$ mile from Felder in Bell County and on the L. & N. R. R. $2\frac{1}{2}$ miles from Harlan, Ky. This was formerly the Kentucky Colliers Coal Co. and was not inspected as it was not in operation on date of inspection. This is a drift mine and name of seam being developed is unknown. Coal averages 34 inches including 2-inch of bastard coal which lies on top of the coal near the roof, slate and sandstone roof and fire clay bottom. Furnace ventilation, mule haulage. Coal is being shot from the solid, mine cars are tipped into a chute 75 feet. Two-ton car is loaded from this chute and trammed 180 feet to tippie. Mine run is the only grade loaded. Capacity about 75 ton per day.

LONG RIDGE COAL COMPANY.

Dr. Pollard, General Manager and Superintendent; J. W. Sparks, Mine Foreman.

This mine is located on the L. & N. R. R. about half a mile below Hulen, Ky., in Bell County, and 20 miles from Harlan, Ky., and was inspected November 8, 1920, and was found to be in good condition on date of inspection. This is a drift mine and working the Mason seam of coal, and the coal averages about 38 inches in height, free from partings. Slate roof and fire clay bottom. Ventilation is produced by a 5-foot Buckeye blower fan, propelled by a gasoline motor. The coal is gathered and hauled with mules to the tippie, mine run

being the only grade loaded. The coal is tipple height, and being shot from the solid with black powder. First aid supplies are kept in a special house at the mine.

BROOKING COAL COMPANY.

H. A. Brooking, President; P. T. Carins, Secretary and Treasurer; H. A. Brooking, Superintendent. Main office, Pineville, Ky.

This mine is located on Puckets Creek two miles from Felder in Bell County, and on the L. & N. R. R., 26 miles from Harlan, Ky. This is a new mine and will be shipping coal by the first of March and has not as yet been inspected. This is a drift mine and undecided as to the name of seam being developed. Coal averages 40 inches including a 2-inch parting near the roof. Slate and sandstone and slate bottom. Solid shooting, mule haulage, coal tipple height. Coal will be tipped direct into railroad cars.

The following is a list of small mines that are now closed down and the necessary information could not be obtained: Ponza Coal Co. located at Colmar, Ky. J. C. R. Salior Coal Co., located at Hulen, Ky. Tuggle Coal Co., located at Hulen, Ky.

The following is a list of wagon mines that are closed down and the necessary information could not be obtained: Merchant Coal Co., Wallins Creek, Ky. Newar Coal Co., Wallins Creek, Ky. Wallins Mining Co., Wallins Creek, Ky. Birdie Coal Co., Wallins Creek, Ky. Bird Coal Co., Wallins Creek, Ky. China Coal Co., Wallins Creek, Ky. Harlan & Baxter Coal Co., Baxter, Ky. Badger Coal Co., Ages, Ky. Harlan Queen Coal Co., Harlan, Ky. Bugger Hollow Coal Co., Harlan, Ky.

The following is the list of fatal accidents which have been reported to me for the year of 1920:

This fatality occurred at Model Coal Co. at Lejunior, Ky., on the 24th day of June, 1920. Mr. Stealy Lawson, age 18, a car trimmer. He was lowering a railroad car under the tipple. While attempting to tighten up the break on the car he fell

in front of the car which ran over him, causing his death. American nationality, white, single.

This fatality occurred at No. 30 mine of the United States Coal & Coke Co. at Lynch, Ky., on the 16th day of October, 1920. Mr. J. Tom Shook, age 22, nationality American, white. He was breaking on trip of cars and a piece of slate fell from the roof, striking him, breaking his neck. Married, one child.

This fatality occurred at No. 30 mine of the United States Coal & Coke Co. at Lynch, Ky., on the 23 day of October, 1920. Mr. T. E. Withrow, nationality American, white. He was a laborer and entered an abandoned airway to eat his lunch and slate fell on him causing his death. Married, five children.

This fatality occurred at No. 30 mine of the United States Coal & Coke Co. at Lynch, Ky., on the 30th day of October, 1920. Mr. Jessie Griggs, nationality American, white. He was a breakman and a car wrecked knocking the timber down and allowing the slate to fall on his causing his death. Married, two children.

This fatality occurred at No. 31 mine of the United States Coal & Coke Co., at Lynch, Ky., on the 10th day of November, 1920. Mr. Theodore Kwoss, nationality Russian. While loading slate in his working place, slate fell on him causing his death. Married, one child, age 49.

This fatality occurred at United States Coal & Coke Co. at Lynch, Ky., on the 17th day of November, 1920. Mr. Will Kemp, age 22, nationality American, white. He was a driver for this company. He attempted to jump off a moving car and fell in front of it. The car ran over him, crushing him to death. Single.

This fatality occurred at No. 31 mine of the United States Coal & Coke Co. at Lynch, Ky., on the 25th day of November, 1920. Mr. W. R. Hill, age 37, nationality American, white. He entered an idle working place and slate fell on him causing his death. Married, five children.

This fatality occurred at No. 31 mine of the United States Coal & Coke Co., at Lynch, Ky., on the 29th day of November, 1920. Mr. Adam Miller, age 43, nationality Polish. He was

a miner and was loading coal in heading and slate fell on him causing his death. Widower, three children.

This fatality occurred at No. 30 mine of the United States Coal & Coke Co. at Lynch, Ky., on the 1st day of December, 1920. Mr. Auther Roberts, age 38, nationality American, white. He was setting a timber under bad slate and it fell on him causing his death. Married, three children.

This fatality occurred at No. 30 mine of the United States Coal & Coke Co., at Lynch, Ky., on the 23rd day of December, 1920. Mr. D. T. Davison, age 26, nationality American, white. He was running a motor, the motor pole became fastened in the switch of trolley wire, while he was trying to unfasten the motor pole, his motor was struck by a trip of cars, causing him to fall and was caught between motor and top of mine. Married, one child.

McCOMBS COAL COMPANY.

F. K. More, President; G. W. Bassel, General Manager and Superintendent; J. Q. Angle, Mine Foreman. Main office, Cleveland, O., mine office, Elcomb, Ky. McCombs Mine.

This mine is located on Catrons Creek at Elcomb, Ky., in Harlan County, on the L. & N. R. R., 2½ miles from Harlan, Ky., and was inspected on September 16, 1920, and found to be in good condition on date of inspection. This is a drift mine working the Harlan seam of coal and coal is 48 inches, free from parting. Slate roof and fire clay bottom. Ventilated with 6-foot S. B. Stine fan. 6 C. E. No. 6 Sullivan for undercutting the coal before shooting. Coal is gathered and hauled to the head house by four 6-ton Goodman motors, where it is transferred down a 1,600-foot, 20-degree pitch incline in 7-ton monitors to a wooden constructed tippie. Equipped with Webster's shaker screens. Capacity, 800 tons per day. Power furnished by Kentucky Utilities Co.

HARLAN FUEL COAL COMPANY.

Earl Guthrie, President and General Manager; Elbert Guthrie. Superintendent. Main office, Harlan, Ky.; mine office, Yancy, Ky. Guthrie Mine.

This mine is located on Catrons Creek at Yancy, Ky., in

Harlan, Ky., on L. & N. R. R., 8 miles from Harlan, Ky., and was inspected on September 17, 1920, and found to be in fair condition on date of inspection, notice served covering all defects. This is a drift mine working Harlan seam of coal and coal is 52 inches, free from parting. Sandstone and slate roof, fire clay bottom. Two 4-foot disc fans are used to produce ventilation. Four C. E. No. 6 Sullivan coal cutting machines are used to under-cut the coal before being shot. One C. E. 6-ton motor used to gather and haul the coal to the head house, where it is tipped and lowered by conveyors 150 feet, 18-degree pitch to the wooden constructed tippie. Equipped with Webster's shaker screens. Capacity 400 tons per day. Has own electric plant. First aid supplies kept at the mine.

WISCONSIN STEEL CO. Inc.

Vice President, C. F. Biggert; Mine Inspector, C. L. Young; General Superintendent, B. W. Batchelder; Mine Superintendent, R. A. Walter; Mine Foreman, Gen. G. R. Luke. Main office, Nashwauk, Minn. Tel. & Exp., Benham, Ky. Mine office, Benham, Ky. Mine No. 1. Mine Foreman, T. H. Luke.

This mine is located on Poor Fork, at Benham, Ky., in Harlan County and on the L. & N. R. R., 32 miles from Harlan, Ky., and was inspected October 26, 1920, and found to be in good condition on date of inspection.

This is a drift mine developing the C. seam of coal and coal averages 5 ft. free from parting, medium hard slate roof, fire clay bottom.

Seventeen Shortwall mining machines are used to under-cut the coal before being shot. Permissible explosives are alone used. 21 electric locomotives are used together and haul the coal to the headhouse. Coal is transferred to the tippie by retarding scrapper conveyor, 280 feet, 26 degree pitch, steel constructed tippie equipped with shaker screen loading boom, make of installation Allen and Garcia Co. They have 15 Wolf safety lamps and one Koehler safety lamp.

First aid supplies are kept at the Mine Foreman's office and at each section of the mine.

The humidity is maintained by means of a water sprinkler car. Sometimes a small quantity of gas can be found in the advance workings of the mine. Fire bosses visit each working place every morning before men enter the mine, and mark it up.

No. 2 MINE.

General Mine Foreman, J. R. Luke; Mine Foreman, H. H. Drummond.

This is a drift mine working the C. seam of coal and coal averages five feet, free from parting, medium hard slate roof and fire clay bottom. This mine was inspected October 27, 1920, and found to be in good condition on date of inspection.

Ventilation is produced by 10 foot Jeffery double inlet centrifugal fan, rated 250,000 cubic feet per minute.

Nine shortwall mining machines are used to under-cut the coal before being shot, 17 electric haulage motors are used to haul the coal to the headhouse. Coal is conveyed from dump at the headhouse by gravity 200 foot chute, 35 degree pitch to intermediate bin 50 ton capacity, thence by conveyor belt, to 500 ton storage bin. Wooden constructed tippie, mine run is the only grade loaded.

Safety lamps and first aid supplies are kept at the mine foreman's office and at each section of the mine. Proper humidity is maintained by means of water sprinkler car. Capacity 200 tons per day. There is a bath house, modern equipped for the employees of this company. This company has 114 coke ovens in blast, 703 tons of coal from No. 1 mine being coked each day.

This is a beautiful little mountain city with a population of 1100. There are 609 dwelling houses and two community churches and 5 school buildings.

Dr. A. C. Foster and three nurses takes care of the sick of the city. Two Y. M. C. A.'s furnish amusement for the city.

HARLAN LIBERTY COAL CO.

This mine is located on Baileys Creek at Evarts, Ky., in Harlan County, on the L. & N. R. R. about 11 miles from Harlan, Ky. It was inspected on July 28, 1920, and found to be

in good condition on date of inspection. This was formerly Rye Hollow Coal Co.

This is a drift mine developing the Harlan seam coal and coal is 70 inches, including a 2 inch parting 20 inches from the bottom. Slate and sandstone roof and fire clay bottom.

Ventilation is produced by 4 foot Jeffery fan. Coal is undercut by one Sullivan mining machine before being shot. The coal is gathered and hauled to the head house by mules, coal is tipped into a chute 175 feet; 35 degree, railroad cars are loaded from the chute. Mine run is the only grade loaded, capacity 450 tons per day.

Power furnished by Kentucky Utilities Co.

MIDDLETON COAL CO.

General Manager and Superintendent, R. B. Waddells; Mine Foreman, J. P. Alred. Main office, Munsel, Ind. Mine office, Evarts, Ky.

This mine is located on Clover Fork, at Evarts, Ky., Harlan County, on the L. & N. R. R. nine miles from Harlan, Ky. It was inspected on July 29, 1920, and found to be in good condition on date of inspection.

This is a drift mine working the Harlan seam of coal 6 feet, including 2 partings. One 4 inch parting 12 inches from the roof. One 2 inch, 14 inches from the bottom. Slate roof and fire clay bottom.

Mule haulage, one Sullivan C. E. No. 7 coal cutting machine; furnace ventilation; 493 foot incline, 18 degree pitch, 2 ton monitors are used for transferring coal from head house to the tipple. Two grades of coal are being loaded, namely lump and slack. Wooden constructed tipple, capacity, 200 tons per day.

WHEELER BOON COAL CO.

General Manager, Wheeler Boon; Superintendent, W. W. Birunschwiler; Mine Foreman, Alex. McDonald. Main office, Cincinnati, Ohio. Mine office, Wallins, Ky.

WHEELER BOON MINE.

This mine is located on Terrys Fork at Wallins Creek, Ky., in Harlan County on the L. & N. R. R., 13 miles from Harlan,

Ky. It was inspected Sept. 28, 1920, and found to be in fair condition on date of inspection.

This is a drift mine working the Bull Dog seam of coal and is 46 inches, 16 inches of bituminous coal, and 30 inches of cannel coal. Slate and sandstone roof.

The coal is worked from solid and gathered and hauled with mules to the side track; from there it is taken to tipple by rope haulage. Wooden constructed tipple, ventilated by 5 foot Stine fan, capacity 140 tons per day.

WALLINS CREEK COLLIERIES COAL CO.

General Manager, G. H. Marting; General Superintendent, L. F. Vermillion; Mine Superintendent, H. P. Southard; Mine Foreman, G. N. Swarner, Main office, Scranton, Pa. Mine office, Wallins, Ky.

TERRYS FORK MINE

This mine is located on Terrys Fork at Wallins, Ky., in Harlan County on the L. & N. R. R., 14 miles from Harlan, Ky. It was inspected on Sept. 30, 1920, and found to be in good condition on date of inspection.

This is a drift mine working the Wallins seam of coal and coal is 72 inches free from parting, slate roof and fire clay bottom.

Ventilation produced by 6 foot, S. B. Stine fan, 6 C. E. No. 26 Sullivan machine used for under-cutting the coal before being shot. Electric and mule haulage, mules used to gather the coal to side track inside the mine and from there it is taken to the head house with one 5 ton Westinghouse and one 7 ton Morgan & Gardner motors. From head house it is conveyed by gravity plane in mine cars a distance of 3,600 feet, 30 degree pitch from there it is lowered a distance of 2,400 feet, 8 degree pitch by rope haulage to a wooden constructed tipple, equipped with Savage shaker screens with loading boom, capacity 900 tons per day.

First aid supplies are kept in a special house at the mine. Power furnished by Kentucky Utilities Co.

VINSON AND KAULB COAL COMPANY.

President and General Manager, Guy Vinson; Mine Foreman, George Henson. Main office, Louisville, Ky. Mine office, Cargo, Ky.

TREMONT MINE.

This mine is located on the L. & N. R. R. at Cargo, Ky., 11 miles below Harlan, Ky., toward Pineville, Ky. It was inspected September 21, 1920, and found to be in fair condition on day of inspection. Notice was served covering all defects.

This is a drift mine working the Rex seam of coal. Average height 60 inches, slate and sandstone roof, fire clay bottom. Solid shooting, mule haulage, coal tippie height, wooden constructed tippie. Run of mine coal being loaded. Ventilated by 4 foot Buckeye blower fan run by gasoline, capacity 175 tons per day.

SHAWNEE GAS COAL COMPANY.

President, N. S. Howard; General Manager and Superintendent, Herbert Smith; Mine Foreman, F. P. Fannon. Main office, Harlan, Ky., Mine office, Harlan, Ky.

SHAWNEE GAS MINE.

This mine is located on Martins Fork, at Denson, Ky., on the L. & N. R. R., about 3 miles from Harlan, Ky. It was inspected August 26, 1920, and found to be in fair condition on date of inspection.

This is a drift mine working the Harlan seam of coal and coal is 42 inches. Sandstone roof, fire clay bottom. .

Equipped with air compressor plant, is used for furnishing power to under-mine the coal before being shot. Five Ingersol machines are used for this purpose, mule haulage. Ventilated with 4 foot Buckeye blower fan. Aerial tramway is used to lower the coal from the head house, a distance of 650 feet, 45 degree pitch to a wooden constructed tippie. Mine run is the only grade of coal loaded.

First aid supplies are kept in a special house at the mine.

RIVER SIDE MINING COMPANY.

President and General Manager, W. L. George; Vice Presi-

dent, Robt. Euster; Mine Foreman, L. Castle. Main office, Middlesboro, Ky. Mine office, White Star, Ky.

This mine is located on the L. & N. R. R. at White Star, Ky., in Harlan County, about 8 miles from Harlan, Ky., and was inspected August 9, 1920, and found to be in poor condition on date of inspection, notice served covering all defects. Inspected again October 1, 1920, and found to be in much better condition.

This is a shaft mine developing the Rex seam of coal and coal is 50 inches, free from parting, sandstone roof and fire clay bottom.

This mine generates some gas, but not considered a gaseous mine. Depth of shaft, 96 feet. Coal is raised to surface in mine cars by steam hoist. Ventilation produced by 4 foot disc fan, coal is under-cut by one C. E. 6 Sullivan mining machine. One 4 ton Jeffrey motor is used to gather and haul the coal to the bottom of the shaft, wooden constructed tipple, with stationary screens. Capacity 150 tons per day.

WILLIS HARLAN COAL COMPANY.

President, E. H. Hoffman; General Manager, W. L. George; Superintendent, C. W. Willis. Main office, Cincinnati, Ohio, Mine office, Pathfork, Ky.

This is a drift mine developing the lower Harlan seam, and Harlan County, and on the L. & N. R. R., about nine miles from Felder and 33 miles from Harlan.

This is a drift mine developing the lower Harlan seam and coal averages 6 1/2 feet, including a 7 inch slate parting, slate roof and fire clay bottom.

Ventilation is produced by 5 foot American blower fan. Coal is worked from the solid, mule haulage. The coal is water level, raised by steam hoist to tipple height. Mine run is the only grade loaded, capacity 80 tons per day.

KENTUCKY KING COAL COMPANY.

General Manager, W. B. Miller; Superintendent, W. M. Anderson; Mine Foreman, C. O. Owens. Main office, Wallins, Ky., Mine office, Wallins, Ky.

KENTUCKY KING MINE.

This mine is located on Wallins Creek at Lisle, Ky., on the L. & N. R. R., about 17 miles from Harlan, Ky. It was inspected September 28, 1920, and found to be in fair condition on date of inspection.

This is a drift mine working Wallins seam of coal, average height, 6 feet, including a 2 inch parting, 12 inches from the bottom. Soft slate roof, fire clay bottom.

The mine is equipped with 3 C. E. No. 6 Sullivan, one Short-wall Morgan Gardner machine is used for under-cutting the coal before being shot. Ventilated by 6 foot American blower fan. Four mules and 2 G. E. 6 ton motors are used to gather the coal and haul it to the head house, coal lowered by gravity plane from head house the distance of 3,300 feet, 45 degree pitch to a wooden constructed tibble, equipped with Savage shaker screens, including loading boom, 2 safety lamps and first aid supplies are kept in a special house at the mine. Capacity 200 tons per day.

T. C. BERGER AND COMPANY.

General Manager, Chas. E. Ralston; Superintendent and Mine Foreman, R. F. Williams. Main office, Lejunior, Ky.

This mine is located on Clover Fork, at Lejunior, Ky., in Harlan County, and on the L. & N. R. R., 13 miles from Harlan, Ky. This was formerly the Charles E. Ralston Trustees Co.

This is a drift mine developing the Harlan seam of coal and coal 48 inches, including 2 inch parting 6 inches from the roof, slate roof and fire clay bottom. This mine was inspected July 20, 1920, and found to be in good condition on date of inspection.

Ventilation is produced by a 5 foot Buckeye blower fan. Two C. E. 6 Sullivan mining machines are used to under-cut the coal before being shot, coal is gathered and hauled by one 4 ton G. E. motor to the outside where it is tipped into a coal bin, one 10 ton car is loaded from this bin and trammed 300 feet, where it is tipped in railroad cars. Mine run is the only grade loaded, daily capacity 400 tons.

Power furnished by Kentucky Utilities Co.

First aid supplies are kept in a special house at the mine.

THE HARLAN COAL COMPANY.

President, W. H. Frost; Vice President, J. S. Lambert; Secretary, H. Leworthy; Treasurer, A. J. Lazeltine; General Manager and Superintendent, W. H. Frost; Mine Foreman, Wm. Earl. Main office, Fredonia, N. Y. Mine office, Pathfork, Ky.

This mine is located 9 miles from Hulen, Ky., at Pathfork, Ky., in Harlan County, and on the Black Mountain R. R., about 22 miles from Harlan, Ky.

This is a drift mine working the Harlan seam of coal and coal averages 48 inches, including a knife blade parting 14 inches from the roof, slate and sandstone roof and fire clay over slate bottom.

Ventilation is produced by a 5 foot Buckeye blower fan. Mule haulage, solid shooting, coal is lowered by a wooden constructed chute 240 feet where the railroad cars are loaded. Capacity, 50 tons per day.

CORNETT LEWIS COAL COMPANY.

President, D. B. Cornett; Secretary and Treasurer, W. W. Lewis; General Manager, R. E. Lawson; Superintendent and Mine Foreman, W. M. Dean. Main office, Harlan, Ky.

This mine is located on Clover Fork, 2 1/2 miles above High Splint, Ky., in Harlan County and on the L. & N. R. R., 19 miles from Harlan, Ky. Work first began developing the High Splint seam, September 1, 1919, and expects to be shipping coal June 1, 1921.

This is a drift mine and coal averages 5 feet, 4 inches free from parting, slate and sandstone roof and fire clay bottom.

Three openings are being made, No. 1 opening is 2,700 feet from head house; No. 2 opening is 900 feet from head house; No. 3 opening is 1 1/2 miles from head house. Ventilation will be produced temporarily by 4 foot disc fans.

Coal is being shot from the solid and hauled by mules at present, and will be electrically equipped as soon as possible.

They have at present on hand 3 C. E. No. 7 Sullivan mining machines, and two 6 ton G. E. motors. Coal will be lowered from headhouse by gravity plane in 15 ton monitors 2,600 feet, 30 degree pitch to where it is tipped and the coal is conveyed 400 feet to a wooden constructed tipple equipped with Webster shaker screens including loading boom.

Power furnished by Kentucky Utilities Co.

BOWLING COAL MINING COMPANY.

President, H. S. Bowling; General Manager, Stokley Bowling; Superintendent and Acting Mine Foreman, J. H. Bowling. Main office, Harlan, Ky.

This is a drift mine developing the Harlan seam of coal, and coal is 45 inches free from parting, slate roof and fire clay bottom. This was formerly Industrial Fuel Coal Co.

This mine is located on Carrons Creek in Harlan County and on the L. & N. R. R., 7 miles from Harlan, Ky.

Ventilated by furnace, coal is shot from the solid. Mule haulage. Coal is lowered in 300 foot chute, railroad cars are loaded from this chute, capacity 50 tons per day.

They began shipping coal January 15, 1920.

MINE No. 2.

Same officials.

This mine is located on Baileys Creek in Harlan County and on the L. & N. R. R., 11 miles from Harlan, Ky.

This is a drift mine developing the Harlan seam of coal and coal, 6 feet including 2 partings, one 6 inch parting, 16 inches from the bottom, and one 1 inch parting, 12 inches from the roof. Slate and sandstone roof and fire clay bottom.

Furnace ventilation, coal is shot from the solid, mule haulage, coal is lowered in chute 50 feet, where it is loaded into railroad cars, mine run is the only grade loaded. Capacity 100 tons per day.

HIGH SPLINT COAL COMPANY.

President, N. B. Perkins; Vice President, T. E. Mahan; General Manager, J. B. Gatliff, Secretary and Treasurer, N. A. Archer; Superintendent, I. C. Dalrymple; Mine Foreman,

John Reed. Main office, Williamsburg, Ky., Mine office, High Splint, Ky.

HIGH SPLINT MINE.

This mine is located on Clover Fork, at High Splint, Ky., in Harlan County and on the L. & N. R. R., 17 miles from Harlan, Ky. It was inspected June 25, 1920, and found to be in good condition on date of inspection.

This is a drift mine developing the High Splint seam of coal and coal 55 inches free from parting, sandstone roof and fire clay bottom.

Ventilation is produced by two 6 foot Jeffrey fans, three C. E. 6, and three C. E. 7 Sullivan mining machines are used to under-cut the coal before being shot. Coal is gathered and hauled to head house with one 8 ton G. E. motor, and one 6 ton Edison Storage battery motor. The coal is lowered from the head house by gravity plane in 15 ton monitors 3,200 feet, 40 degree pitch to a wooden constructed tippie equipped with link belt shaker screens and loading boom. Capacity 3,000 tons per day. Electric hoist used to convey the men to and from work. Power furnished by Kentucky Utilities Co.

First aid supplies are kept in a special house at the mine.

HARLAN MINE No. 1.

Mine Foreman, Carl Chatfield.

This is a drift mine working the Harlan seam of coal and coal is 45 inches including a 3 inch parting near roof, slate and sandstone roof and fire clay bottom.

Ventilation is produced by 8 foot centrifugal fan. Five C. E. 6 Sullivan mining machines are used to under-cut the coal before being shot. Coal is gathered and hauled by two 8 ton G. E. motors to a wooden constructed chute where mine cars are tipped into railroad cars, coal tippie height. Capacity 300 tons per day.

Power furnished by Kentucky Utilities Co.

VERDA HARLAN COAL COMPANY.

President, Julian Brugh; Secretary and Treasurer, C. W.

Roberts; General Manager and Foreman, Geo. W. Sharp. Main office, Harlan, Ky. Mine office, Verda, Ky.

This mine is located at Verda, Ky., in Harlan County and on the L. & N. R. R. about 8 miles from Harlan, Ky.

Work began developing the Harlan seam October 19, 1920, and expect to be shipping coal March 1, 1921. Average height of coal, 51 inches slate roof and fire clay bottom.

At present the coal is being shot from the solid, mule haulage, and the coal stocked on the outside. Ventilated by furnace. Mine cars will be lowered over a 450 foot incline, to tipple.

Equipment to be installed in tipple is not yet known.

KITTS CREEK COAL COMPANY.

General Manager and Superintendent, Earl Jameson; Mine Foreman, John Sizemore. Main office, Harlan, Ky.

This mine is located on Clover Fork at Kitts, Ky., in Harlan County and on the L. & N. R. R., about one mile from Harlan, Ky., and was inspected Aug. 6, 1920, and found to be in fair condition, notice was served covering all defects. This is a drift mine working the Harlan seam of coal and coal is 50 inches, free from parting, slate and sandstone roof. This mine was driven into Clover Fork mine and ventilated by their fan. Coal is worked from the solid. Mule haulage, cars are tipped into a chute 250 feet, 35 degree pitch, a 3 ton monitor is loaded from this chute and hauled by a mule 400 feet to tipple which is wooden constructed. Mine run is the only grade loaded. Capacity 50 tons per day.

ROCKY BRANCH COAL COMPANY.

Carter Howard, President; I. T. York, General Manager and Superintendent; I. T. York, Mine Foreman. Main office, Hulen, Ky.

This mine is located on Puckets Creek, three miles from Felder in Harlan County, and on the L. & N. R. R., 27 miles from Harlan, Ky. This is a new mine, has not been shipping coal but a short time and has not as yet been inspected. This is a drift mine undecided as to the name of the seam of coal. Coal averages 44 inches, including 2 partings, one 2 inch,

parting 8 inches, from roof, one 4 inch, parting 6 inches, from the roof. Slate roof and slate bottom. Ventilation is produced by 4 foot Buckeye blower fan, run by gasoline engine. Coal is worked by solid shooting. Gathered and hauled to tipple with mule coal tipple height. Mine run is the only grade loaded. Capacity 75 tons per day.

LEWIS COAL COMPANY.

M. H. Lewis, President; C. C. Lewis, General Manager and Superintendent. Main office, Pineville, Ky.

This mine is located on the L. & N. R. R., at Luce, Ky., in Bell County, 22 miles from Harlan, Ky. This is a drift mine developing the Mason seam, and coal is 38 inches free from parting. Slate and sandstone roof and fire clay bottom. Ventilated by furnace. Coal is worked from the solid. Mule haulage. Coal is lowered by gravity plane in 5 ton monitors, 460 feet to the tipple. Mine run is the only grade loaded. Capacity 80 tons per day.

KRESGE COAL AND MINING COMPANY.

Main office, Cincinnati, O. Layman H. Dresbach, Receiver in Bankruptcy.

This mine is located at Calaway, Ky., on the L. & N. R. R., in Bell County, 23 miles from Harlan, Ky. This is a drift mine working the Mason seam, and coal is 38 inches free from parting. Slate and sandstone roof and fire clay bottom. Ventilated by furnace. Coal is worked from the solid. Mule haulage. Coal is lowered by gravity plane in 5 ton monitors 180 feet, to a chute where the railroad cars are loaded. Capacity 86 tons per day.

MARTINS COAL COMPANY.

John Ledford, General Manager and Superintendent; Harvey Martin, Mine Foreman.

This mine is located at Miracle, Ky., in Bell County and on the L. & N. R. R., about 33 miles from Harlan, Ky., and was inspected Sept. 13, 1920, and found to be in good condition on date of inspection. This is a drift mine developing the Mason

seam of coal, and coal averages 42 inches free from parting. Slate roof and fire clay bottom. Furnace ventilation, solid shooting, mule haulage. Coal is lowered by gravity plane in a chute 300 feet. Mine run is the only grade loaded. Capacity 100 tons per day.

THE P. V. & K. COAL COMPANY.

A. K. Robison, President; J. S. Robison, General Manager and Superintendent; Robt. H. Robison, Secretary and Treasurer; D. D. Davidson, Mine Foreman. Head office, Monongahela, Pa. Mine office, Lejunior, Ky. Clover Gap Mine.

This mine is located on Clover Fork, Harlan County on the L. & N. R. R., 12 miles from Harlan, Ky., and was inspected July 21, 1920, and found to be in good condition on date of inspection. Working Harlan seam of coal and the seam is 52 inches, including one 1 inch parting and one 3 inch parting, coal tipple height. Ventilation is produced in No. 1 opening and No. 2 opening by 5 foot Jeffrey fans. Two C. E. 6 Sullivans and two Goodman mining machines are used to under-cut the coal before being shot. Coal is gathered and hauled to tipple by two 6 ton Jeffrey and one 3½ Goodman motors. Wooden constructed tipple equipped with W. J. Savage shaker screens, including loading boom. Capacity 450 tons per day. Power furnished by Kentucky Utilities Company. First Aid supplies are kept in a special house at the mines.

COOK AND SHARP COAL COMPANY.

W. M. Cook, General Manager and Superintendent; W. M. Cook, Jr., Mine Foreman. Main office, Lejunior, Ky. Cook and Sharp Mine.

This mine is located on Clover Fork, at Lejunior, Ky., Harlan County on the L. & N. R. R., 12 miles from Harlan, Ky., and was inspected July 21, 1920, found to be in good condition on date of inspection. Working Harlan seam of coal and seam is 48 inches, including 2 inch parting, 4 inches from roof. Slate and sandstone roof. Equipments: Two Sullivan machines; mule haulage, furnace ventilation. Coal seam 25 feet above tip-

ple height, 35 degree pitch. Wooden constructed tipple. Capacity 450 tons per day.

R. L. BROWN COAL COMPANY.

R. L. Brown, General Manager and Superintendent; John Ledford, Mine Foreman. Main office, Middlesboro, Ky. Mine office, Evarts, Ky.

This mine is located on Clover Fork at Evarts, Ky., Harlan County, on the L. & N. R. R., 10 miles from Harlan, Ky., and was inspected July 22, 1920, and found to be in good condition on date of inspection. Working Kellioka seam of coal and coal is 42 inches, with 4 inch parting, 8 inches from the bottom. Slate and sandstone roof. Solid shooting. Mule haulage. Ventilated with 4 foot Buckeye Blower fan, 600 foot incline, 30 degree pitch. Wooden constructed tipple. I have been informed that this mine has been electrically equipped since date of inspection. Capacity 200 tons per day.

BLOCK COAL COMPANY.

McMany, General Manager; Jim Garber, Superintendent; W. M. Silvers, Mine Foreman. Main office, Evarts, Ky. Block Mine.

This mine is located on Clover Fork, at Evarts, Ky., on L. & N. R. R., 11 miles from Harlan, Ky., and was inspected July 22, 1920, and found to be in good condition on date of inspection. Working Harlan seam of coal and coal is 76 inches, including a 36 inch parting 17 inches from the bottom. Sandstone roof and solid shooting. Mule haulage. Furnace ventilation. Coal 175 feet above tipple height. Coal is tipped into a chute 175 feet long at a 35 degree pitch, loaded from there into railroad cars. Capacity 50 tons per day.

SHARP AND MILLER COAL COMPANY.

G. M. Sharp, General Manager; John E. Brown, Superintendent; D. M. Taulbee, Mine Foreman. Main office, Middlesboro, Ky. Mine office, Lejunior, Ky.

This mine is located on Clover Fork at Lejunior, Ky., Harlan County on L. & N. R. R., 11 miles from Harlan, Ky., and

was inspected July 23, 1920 and found to be in good condition on date of inspection. Working Harlan seam of coal and seam is 52 inches, including 3 inch parting, 12 inches from the roof. Sandstone roof. Solid shooting. Mule haulage. Furnace ventilation. Coal is 125 feet above tippie height. Coal is tipped into a chute 120 feet long 45 degree pitch, loaded from there into railroad cars. Capacity 200 tons per day.

THE BLACK MOUNTAIN CO-OPERATION.

F. S. Peabody, President; H. M. Young, Vice-President; A. W. Miller, Local and Division Superintendent; James Gabbard, Mine Superintendent; W. M. Corkery, Mine Foreman. Main office, Chicago, Ill. Mine office, Dizney, Ky. North Side Mine.

This mine is located on Yocum Creek at Dizney, Ky., in Harlan County, and on the L. & N. R. R., 13 miles from Harlan, Ky., and was inspected July 15, 1920, and was found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine developing the Darby seam of coal and coal averages 44 inches free from parting. Slate and sandstone roof and fire clay bottom. Ventilated by 6 foot disc fan. Eight 35 B. Jeffrey mining machines are used to under-cut the coal before being shot. Coal is gathered and trammed to the head house by one 13 ton G. E. motor, three 5 ton G. E. motors, two 6 ton Mancha storage battery motors. The coal is lowered by retarding, and belt conveyor to the tippie.

South Side Mine. E. J. Asbery, Mine Foreman.

This is a drift mine developing the Darby seam of coal and coal averages 44 inches free from parting. Slate and sandstone roof and fire clay bottom. This mine was inspected July 16, 1920, and found to be in fair condition on date of inspection, notice was served covering all defects. Ten 36 B. Jeffrey mining machines are used to under-cut the coal before being shot. Coal is gathered and trammed to the head house with one 13 ton G. E. motor, five, 5 ton G. E. Storage battery motors and five 6 ton Mancha storage battery motors. Coal is lowered by retarding and belt conveyor to the tippie. Coal from

both mines come to a wooden constructed tippie equipped with stationary screen. Two grades of coal are loaded, namely, lump and slack. Capacity 2,000 tons per day. Power furnished by Kentucky Utilities Company. This is a beautiful little mining town with the population of about 1,000, and two large school buildings, and two churches. A nice and modern equipped hospital and one large amusement hall, a nice pool room and barber shop.

LOONEY CREEK COAL COMPANY.

T. C. Miller, Superintendent; W. M. Criscillis, Mine Foreman. Main office, Peevee. Clutz Mine.

This mine is located on Poor Fork at Peevee, Ky., in Harlan County and on the L. & N. R. R., 32 miles from Harlan, Ky., and was inspected Oct. 25, 1920, and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine developing the B. & C. seam of coal and coal averages 56 inches in the C. seam and B. seam averages 40 inches, free from parting. C. seam has a very poor slate roof and fire clay bottom and B. seam has sandstone roof and fire clay bottom. One mining machine in each mine for undercutting the coal before being shot. Ventilation is produced by a 6 foot disc fan. Coal is gathered to side track by mules and trammed to head house by one 6 ton G. E. motor. The coal is lowered by aerial tramway to a wooden constructed tippie equipped with shaker screens. The company have their own power plant from which they receive their power. Capacity 1,300 tons per day.

CREECH COAL COMPANY.

R. W. Creech, President; H. C. Randall, General Manager; H. Silvers, Superintendent; William Simpson, Mine Foreman. Main office, Twila, Ky. Creech Mine No. 1.

This mine is located on Wallins Creek in Harlan County and on the L. & N. R. R., about 17 miles from Harlan, Ky., and was inspected Sept. 25, 1920, and found to be in good condition on date of inspection. This is a drift mine developing the Wallins seam of coal and coal averages 6 foot free from parting.

Slate and sandstone roof and fire clay bottom. This mine is equipped with 6 foot S. B. Stine fan. All coal is under-cut before being shot with 6 C. E. Sullivan mining machines. Coal is gathered and hauled to head house with four 6 ton and one 10 ton G. E. motors. The coal is lowered by gravity plane in mine cars 2,700 feet, 40 degree pitch then it is lowered by steam hoist to tippie. A special car with hoist is used to convey the men to and from work. First aid supplies are kept in a special house at the mine.

Creech Mine No. 2. R. L. Warren, Mine Foreman.

This mine was inspected Sept. 23, 1920 and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine developing the Wallins seam of coal and coal averages 6 foot free from parting. Slate and sandstone roof and fire clay bottom. Ventilation is produced with 6 foot American Blower fan. Electrically equipped. One No. 6 Sullivan and one Goodman mining machine are used to under-cut the coal before being shot, three 6 ton G. E. motors are used together and haul the coal to the head house where it is lowered by gravity plane in mine cars 2,575 feet, 40 degree pitch, then it is transferred by electric hoist to the tippie. The coal from No. 1 and No. 2 mines comes to the same tippie, being wooden constructed, equipped with shaker screens including loading boom. A special car with hoist is used to convey the men to and from work. First aid supplies are kept in a special house at the mine.

ELLIS KNOB COAL COMPANY.

John Pope, General Manager and Superintendent; Walter Harmon, Mine Foreman. Main office, Harlan, Ky. Mine office, Caywood, Ky.

This mine is located on Martins Fork at the mouth of Cummings Creek at Caywood, Ky., in Harlan County and on the L. & N. R. R., about 9 miles from Harlan, Ky. This is a drift mine working Harlan seam of coal and coal 62 inches, including a 3 inch parting, 6 inches from the roof. Slate roof and fire clay bottom. Entries are being driven and the coal is being shot

from the solid. Work was first begun July, 1920 and expect to be shipping coal by the first of April, 1921.

LENA RUE COAL COMPANY.

F. F. Caywood, General Manager; W. J. Harmon, Mine Foreman. Main office, Harlan, Ky. Mine office, Lena Rue, Ky. Lick Branch Mine.

This mine is located on Lick Branch at Lena Rue, Ky., in Harlan County and on the L. & N. R. R., 13 miles from Harlan, Ky. They began work there Jan. 1, 1921 opening this mine. Harlan seam of coal being developed, which shows to be 56 inches in height including one 3 inch parting, 4 inches from the roof. They expect to be shipping coal by Aug. 1, 1921.

PERKINS HARLAN COMPANY.

N. B. Perkins, President; E. F. Southard, Vice-President; F. D. Perkins, Secretary and Treasurer; A. Signer, Superintendent and Mine Foreman. Main office, Williamsburg, Ky. Mine office, Liggett, Ky.

This mine is located on Carrons Creek at Leggitt, Ky., in Harlan County and on the L. & N. R. R., about 7 miles from Harlan, Ky. This being a new mine hasn't as yet been inspected. This is a drift mine developing the Harlan seam of coal and coal is 46 inches free from parting. The first railroad car that was loaded at this mine was Dec. 24, 1920 from stock coal. They expect to be running coal over the tipple by March 1, 1921. Ventilation is produced at present by a 4 foot disc fan, which will later be replaced with a larger one, four C. E. No. 7 mining machines are used to under-cut the coal before being shot. Two 6 ton G. E. motors are used to gather and haul the coal to the head house where it is tipped out of the mine cars and conveyed 150 feet to the tipple by retarding conveyor, wooden constructed tipple equipped with shaker screens, including loading boom. Three grades will be loaded, namely, lump, nut and slack.

J. B. BLUE GEM COAL COMPANY, Mine No. 2.

L. H. Stone, Vice-President; G. T. Bradley, General Manag-

er; P. J. Cross, Superintendent; Tom Williams, Mine Foreman. Main office, Detroit, Mich. Mine Office, Black Joe, Ky.

No. 1 Opening.

This mine is located on Clover Fork at Black Joe, Ky., in Harlan County and on the L. & N. R. R., about three miles from Harlan, Ky., and was inspected Aug. 5, 1920 and found to be in good condition on date of inspection. This is a drift mine developing the Harlan seam of coal and coal is 42 inches free from parting. Slate and sandstone roof and fire clay bottom. Ventilation is produced by 6 foot S. B. Stine fan. Three C. E. No. 6 Sullivan mining machines are used to under-cut the coal before being shot. Coal is gathered and hauled to the head house with two 5 ton Westinghouse motors and one 6 ton G. E. motor.

No. 2 Opening.

Ventilation is produced by 5 foot Jeffrey fan, one C. E. 6 Sullivan mining machine is used to under-cut the coal before being shot. Coal is gathered and hauled to the same head house with 5 ton G. E. motor. Coal is lowered by gravity plane in mine cars 1,300 feet, 20 degree pitch to a wooden constructed tippie equipped with W. J. Savage shaker screens, including loading boom. Capacity 250 tons per day. Power furnished by Kentucky Utilities Company. First aid supplies are kept in the Mine Foremans' office at the mine.

MODEL COAL COMPANY.

P. M. Bennett, President and General Manager; Mat Percefield, Superintendent; J. L. Williams, Mine Foreman. Main office, Williamsburg, Ky. Mine office, Lejunior, Ky. Model Mine.

This mine is located on Clover Fork at Lejunior, Ky., in Harlan County on the L. & N. R. R., about 12 miles from Harlan, Ky., and was inspected June 28, 1920, and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine working the Harlan seam of coal and coal is 48 inches, including 2 partings, one 2 inch parting, 4 inches from the roof and one 1 inch parting near the middle of the seam. Slate roof and fire clay bottom. Ventilation is produced by a 4 foot disc fan, three C. E. 6 Sullivan min-

ing machines are used for under-cutting the coal before being shot. Coal is gathered and hauled to the tipple by one 5 ton Morgan Gardner and one 5 ton Goodman motors. Wooden constructed tipple equipped with W. J. Savage shaker screens. Coal tipple height. Power furnished by Kentucky Utilities Company. Capacity 300 tons per day.

HARLAN SUPERIOR COAL COMPANY.

W. M. Cook, General Manager; Charlie Owens, Superintendent; D. B. Walbrecht, Mine Foreman. Main office, Birmingham, Ala. Mine office, Chevrolet, Ky.

This mine is located on Martins Fork at Chevrolet, Ky., in Harlan County and on the L. & N. R. R., about 4 miles from Harlan, Ky., and was inspected Sept. 14, 1920, and found to be in good condition on date of inspection. This is a drift mine developing the Harlan seam of coal and coal is 55 inches free from parting. Slate roof and fire clay bottom. Furnace ventilation. Coal is shot from the solid. The coal is gathered and hauled to the head house with mules, and is lowered by gravity plane 1,900 feet, 10 degree pitch in 5 ton monitors. Mine run is the only grade loaded. Capacity 100 tons per day.

SUPERIOR HARLAN COAL COMPANY.

W. J. Pritchard, President; W. E. Pritchard, General Manager; D. T. Pritchard, Secretary and Treasurer; W. M. Miller, Superintendent; W. M. Stewart, Mine Foreman. Main office, Hunting, W. Va. Mine office, Evarts, Ky.

This mine is located on Baileys Creek in Harlan County and on the L. & N. R. R., about 11 miles from Harlan, Ky., and was inspected Aug. 10, 1920, and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine working the Harlan & Kellioka seams of coal, and coal in Harlan seam averages 70 inches, including two partings, one 8 inch parting, 11 inches from the bottom, and one 2 inch parting in middle of seam. Kellioka seam averages 42 inches including one 3 inch parting 8 inches from the bottom. Slate roof and fire clay bottom in both seams. Kellioka seam being 300 feet above the Harlan seam. Ventilation is pro-

duced by a 4 foot Buckeye Blower fan. The coal is being undercut by two Jeffrey mining machines before being shot. The coal is gathered and hauled to head house by one 6 ton Jeffrey motor where it is lowered by gravity plane in mine cars to the level of the Harlan seam. The Harlan is tippable height and ventilation is produced by a 6 foot Buckeye Blower fan. One Jeffrey mining machine is used for under-cutting the coal before being shot. Mule haulage to a wooden constructed tippable equipped with Webster shaker screens, including loading boom. Three grades of coal being loaded namely, lump, nut and slack. Capacity 300 tons per day. Power furnished by Kentucky Utilities Company.

KELLIOKA COAL COMPANY.

Edward F. Peeters, President; R. Rout, Vice-President; J. B. Bachlor, Mine Superintendent; W. Y. Cole, Mine Foreman. Main office, Cincinnati, O. Mine office, Kellioka, Ky. Kellioka Mine.

This mine is located on Poor Fork at Kellioka, Ky., in Harlan County and on the L. & N. R. R., about 15 miles from Harlan, Ky., and was inspected Nov. 10, 1920 and found to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine working the Kellioka and Leonard seams of coal and coal is 56 inches, including 10 inches of slate in the middle of the seam. Slate roof and fire clay bottom. Kellioka seam averages 44 inches, including an 8 inch parting in the middle of the seam. Slate roof and fire clay bottom. 42 foot strata of slate between the two seams, coal and both seams are being shot from the solid, gathered and hauled with mules to the outside where it is trammed with a three ton gasoline motor a distance of 3,500 feet, to the head house where it is lowered by aerial tramway 1,365 feet, 30 degree pitch to a wooden constructed tippable. Mine run is the only grade loaded. Capacity 150 tons per day.

CANBIT COAL COMPANY.

L. E. Armentrout, President and General Manager; C. H.

Adams, Superintendent and Mine Foreman. Head office, Cincinnati, Ohio. Mine office, Wallins Creek, Ky.

This mine is located on the L. & N. R. R., about half a mile above Wallins, Ky., on Terrys Fork and 14 miles from Harlan, Ky., in Harlan County. This mine was inspected Sept. 20, 1920 and found to be in fair condition on date of inspection, notice was served covering all defects. This is a slope mine, coal being 100 feet below tippie height. Bull dog seam of coal being worked, average height being about 44 inches, 20 inches of bituminous coal, and 24 inches of cannel coal. The coal is shot from the solid with black powder. The coal is gathered and hauled with mules to the side track then the cars are raised and lowered by a steam hoist, wooden constructed tippie, mine run coal being loaded. Ventilation is produced by a 4 foot disc fan, propelled by gasoline motor. Capacity per day 100 tons.

REX COAL COMPANY.

Thomas Bennett, President; C. V. Bennett, General Superintendent; S. R. York, Mine Foreman. Main office, Kitts, Ky. Rex Mine.

This mine is located on Clover Fork at Kitts, Ky., in Harlan County., and on the L. & N. R. R., about 1¼ miles from Harlan, Ky., and was inspected Aug. 23, 1920 and found to be in good condition on date of inspection. This is a drift mine working the Harlan seam of coal and coal averages 50 inches free from parting. Slate and sandstone roof and fire clay bottom. Ventilation is produced by 7 foot S. B. Stine fan. Two No. C. E. 6 Sullivan and 1 Goodman mining machines, are used for undercutting the coal before being shot. Two 5 ton Sullivan and one 5 ton Goodman motors are used to gather and haul the coal to the head house where it is lowered by aerial tramway 960 feet, 30 degree pitch to a wooden constructed tippie equipped with W. J. Savage shaker screens, three grades of coal being loaded, namely lump, nut and slack. Power furnished by Kentucky Utilities Company. Capacity 400 tons per day.

UNITED STATES COAL AND COKE COMPANY.

W. H. Clingerman, President; E. O. Toole, General Mana-

ger; E. V. Albert, Superintendent; C. A. Donegan, Assistant Superintendent; A. G. Hahn, Mine Inspector; Sam Troskey, Mine Foreman. Main office, Gary, W. Va. Mine office, Lynch, Ky. Mine No. 31.

This mine is located on Poor Fork at Lynch, Ky., in Harlan County and on the L. & N. R. R., 34 miles from Harlan, Ky., and was inspected Oct. 12, 1920 and found to be in good condition on date of inspection. This is a drift mine developing the C. seam of coal and coal averages 4 foot, 10 inches free from parting. Slate and sandstone roof and fire clay bottom. Ventilation is produced by an 18 foot centrifugal fan. Seventeen C. E. No. 7 Sullivan mining machines are used for under-cutting the coal before being shot. Permissible explosive is used for blasting. Coal is gathered and hauled with seven 13 ton Jeffrey motors and 50 ponies to the outside where it is tipped by 2 car rotary dump, then conveyed by belt conveyor to the tipple, 387 feet.

No. 30 Mine. F. O. See, Assistant Superintendent; Tom Drago, Mine Foreman.

This is a drift mine developing the C. seam and coal averages 4 foot, 10 inches free from parting. Slate and sandstone roof and fire clay bottom, and was inspected Oct. 13, 1920, and found to be in good condition on date of inspection. Ventilation is produced by an 18 foot centrifugal fan. Twenty-three C. E. No. 7 mining machines are used to under-cut the coal before being shot. Permissible explosive is used for blasting, all shots fired by dry cell battery. Coal is gathered and hauled with 50 mules and ponies and thirteen 13 ton Jeffrey motors to the outside where it is tipped by rotatory dump and conveyed to the tipple by belt conveyor 404 feet, the coal from both mines comes to a reinforced concrete tipple with a storage bin of 5,000 tons. A car of slate and a car of coal can be dumped at the same time and the slate is carried by conveyor about 800 feet upon the mountain and deposited. Capacity 6,000 tons per day. Cost of tipple \$1,000,000. The first car of coal was shipped from this mine Oct. 31, 1917, for the year 1920, 1,338,000 tons were mined. Estimated tonnage for the year of 1921, 2,500,000. At the rate of $2\frac{1}{2}$ million tons per year it will take 50 years

to work out the C. seam alone. This is the largest town in Harlan County with the population of 6,500, they have 986 dwelling houses equipped with modern conveniences, a nice 107 room hotel with modern conveniences, L. L. Marion, Manager. The commissary is a large three story stone building, very beautiful on the inside. They also have a large hospital which is a four story stone building. The bank and post office is located in a two story stone building, and a large stone bath-house equipped with 1,500 hangers and 125 shower faucets, also four church buildings. There are 2 and nine-tenths miles of concrete road with four foot side walks on each side.

HARLAN GAS AND COAL COMPANY.

S. A. Douglas, General Manager; A. Y. Malsomcom, President; Chap. Williams, Superintendent; Grover Hodge, Mine Foreman. Main office, Detroit, Mich. Mine office, Harlan, Ky. Harlan Gas Mine.

This mine is located on Clover Fork at Gaston, Ky., in Harlan County on the L. & N. R. R., one-half mile from Harlan, Ky., and was inspected July 23, 1920, and found to be in good condition on date of inspection. Working Harlan seam of coal and coal is 60 inches, including a 5 inch parting, 15 inches from the bottom. Sandstone roof and fire clay bottom. Ventilation is produced by an 8 foot disc fan. Three Sullivan and 4 Morgan Gardener mining machines are used for under-cutting the coal before being shot. Coal is gathered and hauled to the head house by two 6 ton Jeffrey motors, one 10 ton Jeffrey motor and three 5 ton Morgan Gardener motors. The coal is lowered from the head house in mine cars, 1,300 feet, 24 degree pitch to a wooden constructed tippie equipped with shaker screens. Power furnished by Kentucky Utilities Company.

R. C. TWAY COAL COMPANY.

R. C. Tway, General Manager; T. M. Gibson, Superintendent. Main office, Louisville, Ky. Mine office, Harlan, Ky. Bland Mine.

This mine is located on Martins Fork, Harlan, Ky., in Harlan County, on the L. & N. R. R., 1 mile from Harlan, Ky., and

was inspected July 26, 1920 and found to be in good condition on date of inspection. Working Harlan seam of coal, and coal is 60 inches, including 6 inch parting, 15 inches from the bottom slate and sandstone roof. Equipment: Two 5 ton Jeffrey motors, one 10 ton Jeffrey motor and 6 Goodman machines. Ventilated by a 6 foot Jeffrey fan. 12 mules are used to gather coal to the side tracks. Coal is 1,000 feet above tippie height, incline 1,000 feet long, 40 degree pitch. Wooden constructed tippie. Equipped with shaker screens. Three grades are being loaded, namely, lump, nut and slack.

EVARTS COAL COMPANY.

F. W. Smith, General Manager and Superintendent; H. A. Barton, Mine Foreman. Main office, Harlan, Ky. Evarts Mine.

This mine is located on Clover Fork, at Evarts, Ky., in Harlan County, on the L. & N. R. R., 9 miles from Harlan, Ky., and was inspected July 28, 1920 and found to be in fair condition on date of inspection. But I have been informed that they have complied with my request, and now the mine is in good condition. This is a drift mine working the Harlan seam of coal 52 inches, including a 7 inch parting. With ordinarily good slate roof, and fire clay bottom. Mule haulage, one Sullivan machine used for cutting the coal. Ventilated with a 5 foot Buckeye Blower fan. A 700 foot aerial tramway is used to lower the coal from the mine to the bin, where the railroad cars are loaded. Capacity 150 tons per day.

DARBY HARLAN COAL COMPANY.

N. B. Smith, General Manager and Superintendent. Main and Mine office, Evarts, Ky. Darby Harlan Mine.

This mine is located on Clover Fork at Evarts, Ky., in Harlan County and on the L. & N. R. R., about 10 miles from Harlan, Ky., and was inspected July 27, 1920, and found it to be in fair condition on date of inspection, notice was served covering all defects. This is a drift mine developing the Harlan seam of coal and coal is 58 inches, including a 12 inch parting, 16 inches from the bottom. Slate roof and fire clay bottom. Coal is being shot from the solid, mule haulage, furnace ventilation.

The coal is tipped into a chute 300 feet, 40 degree pitch. Railroad cars are loaded from the chute. Mine run is the only grade loaded. Capacity 100 tons per day.

SUGAR CAMP COAL COMPANY.

R. H. Wolford, General Manager and Superintendent.
Main office, Evarts, Ky. Sugar Camp Mine.

This mine is located on Clover Fork at Evarts, Ky., in Harlan County, on the L. & N. R. R., 9 miles from Harlan, Ky., and was inspected on July 27, 1920, and found to be in good condition, except ventilation which was only fair. Notice was served covering all defects. This is a drift mine and Harlan seam of coal is being worked which is 6 feet, including 2 partings, one 6 inch parting 16 inches from the bottom, and one 1 inch parting, 12 inches from roof. Slate and sandstone roof. Mule haulage, furnace ventilation, one Sullivan C. E. No. 7 coal cutting machine. Coal is 300 feet above tippie height. A 300 foot wooden constructed chute, 40 degree pitch is used to lower the coal to where it is loaded into the railroad cars. Capacity 150 tons per day.

J. L. SMITH COAL COMPANY.

J. L. Smith, General Manager; R. B. Browning, Superintendent. Main office, Harlan, Ky. Mine office, Kildav, Ky. J. H. Hembree, Mine Foreman.

This mine is located on Clover Fork at Kildav, Ky., in Harlan County on the L. & N. R. R., 8 miles from Harlan, Ky., and was inspected on July 30, 1920 and found to be in good condition, except ventilation which was fair. Notice was served covering all defects. This is a drift mine, Harlan seam of coal being worked. Coal is 52 inches, including one 1 inch parting, 20 inches from the bottom. Slate and sandstone roof and fire clay bottom. The mine is ventilated with a 6 foot Jeffrey fan, 3 coal cutting machines, 2 Goodman and one Jeffrey. Coal is hauled with two 6 ton Jeffrey motors, 370 feet, 35 degree pitch chute used to lower the coal from the head house to the railroad cars. Mine run coal being loaded at present. Capacity 500 ton per day.

CLOVER FORK COAL COMPANY.

B. W. Whitfield, General Manager and President; John Surgener, Superintendent; E. T. Baker, Mine Foreman. Main and Mine offices, Kitts, Ky. Clover Fork Mine.

This mine is located on Clover Fork in Harlan County and on the L. & N. R. R., about $1\frac{1}{4}$ miles from Harlan, Ky., and was inspected Aug. 2, 1920, and found to be in good condition on date of inspection. This is a drift mine working the Harlan seam of coal and coal is 54 inches, free from parting. Slate and sandstone roof and fire clay bottom. Ventilated by 14 foot Jeffrey fan, electric haulage, 7 C. E. No. 6 Sullivan mining machines used for under-cutting the coal before being shot. Two 5 ton Westinghouse motors and two 6 ton Jeffrey and one 7 ton Jeffrey motor are used to gather and haul the coal to the head house, where it is lowered by gravity plane in mine cars 800 feet, 30 degree pitch to a wooden construction, equipped with Webster shaker screens, three grades of coal being loaded, namely, nut, lump and slack. Capacity 800 tons per day. First aid supplies are kept in a special house at the mines. Power furnished by Kentucky Utilities Company.

MARY HELEN COAL CORPORATION.

F. B. Preston, General Manager; S. J. Dickenson, Superintendent; C. C. New, Mine Foreman. Main office, Roanoke, Va. Mine office, Coal Good, Ky.

This mine is located on Turtle Creek at Coal Good, Ky., in Harlan County on the L. & N. R. R., 7 miles from Harlan, Ky., and was inspected Aug. 24, 1920 and found to be in good condition on date of inspection. This mine is a drift mine working Harlan seam of coal and coal is 48 inches free from partings. Slate and sandstone roof and fire clay bottom. 6 motors are used to haul the coal, two 10 ton Westinghouse, two 5 ton G. E. and two 5 ton battery motors. 4 Goodman short wall mining machines are used to under-cut the coal before being shot. Ventilation is produced with two 4 foot disc fans, and two 8 foot, centrifugal fans. They have openings on each side of the mountain and the coal is conveyed to one tippie by conveyors, 300

feet, 45 degree pitch, wooden constructed tipple equipped with shaker screens and loading boom. Power for this mine is furnished by Kentucky Utilities Company. Capacity 500 tons per day.

LENA RUE COAL COMPANY.

F. F. Caywood, General Manager; W. J. Harmon, Mine Foreman. Main office, Harlan, Ky. Mine office, Lena Rue, Ky. Lena Rue Mine. J. D. Casey, Auditor; Fred Ross, Chief Engineer.

This mine is located on Martins Fork at Lena Rue, Ky., in Harlan County on the L. & N. R. R., 7 miles from Harlan, Ky., and was inspected Aug 25, 1920, and found to be in good condition on date of inspection. This is a drift mine working the Harlan seam of coal and coal is 44 inches free from partings. Slate and sandstone roof and fire clay bottom. Equipment: 3 Goodman short wall machines used for under-cutting the coal before being shot. Coal is hauled to the head house, with two 6 ton Westinghouse motors. Lowered by gravity plane in 5 ton monitors to tipple over 680 feet, 30 degree pitch incline, wooden constructed tipple. Equipped with Webster's shaker screens. First aid supplies are kept at the mine. This mine is worked under the panel system. Power furnished by Kentucky Utilities Company.

HARLAN KELLIOKA COAL COMPANY.

S. A. Douglas, General Manager and Superintendent; G. D. Vowel, Mine Foreman. Main office, Evarts, Ky. Mine office, Dartmont, Ky. Kellioka Mine.

This mine is located on Clover Fork at Dartmont, Ky., in Harlan County and on the L. & N. R. R., 9 miles from Harlan, Ky., and was inspected Sept. 9, 1920 and found to be in good condition on date of inspection. This is a drift mine working the Kellioka seam of coal and coal is 46 inches, including 5 inch parting, 18 inches from the bottom. Slate and sandstone roof and fire clay bottom. Mule haulage. Ventilated by 6 foot S. B. Stine disc fan. Two C. E. No. 7 Sullivan machines are used for under-cutting the coal before being shot. Coal is lowered

from the head house to tipple by gravity plane in 5 ton monitors, 1,250 feet, 35 degree pitch incline, wooden constructed tipple. Mine run coal is the only grade loaded. First aid supplies are kept at the mine. Power furnished by Kentucky Utilities Company.

WALLIN CREEK COLLIERIES COMPANY.

Wm. D. Boyer, President; Geo. G. Brooks, Treasurer; G. H. Marting, General Manager; L. F. Vermillion, General Superintendent; J. W. Easley, Mine Superintendent; J. P. Barton, Mine Foreman; No. 1 side; Joe McDowell, Mine Foreman; No. 2 side; H. B. Coleman, Chief Engineer. Black Comet Mine No. 1.

This mine is located about one-half mile from Harlan, Ky., on Martins Fork and on the L. & N. R. R., in Harlan County, and was inspected Aug. 3, 1920 and found to be in good condition, except, a gasoline motor was being run on the intake of the air. I requested that a new opening be made, so the system of ventilation could be changed and the motor be on the return, which was very soon carried out and now the mine is in a safe and wholesome condition. The Harlan seam of coal is being worked and coal runs from 40 to 60 inches. Slate roof and fire clay bottom. Mule, motor and steam locomotive haulage. Mules gather coal to the side track and gasoline motors convey them to the drift mouth where it is taken to the head house by a 10 ton steam locomotive. Coal is undermined with compressed air puncher machines. Equipment: 2 Erie Horizontal R. T. Boilers, one Sullivan compound two stage 2,000 cubic foot air compressor, eight Ingersol sergeant punchers, 6 Sullivan sergeant punchers, 2 Harrison sergeant punchers, 2 Ingersol jack hammers, one 5 ton Whitcomb gasoline motor, one 10 ton steam locomotive, one 8 foot disc fan driven with 15 horse power A. C. motor. Mine cars are lowered from the head house to the tipple over an incline of 1,037 feet with a 25 degree pitch.

Black Comet Mine No. 2. Joe McDowell, Mine Foreman.

Harlan seam is being worked and coal runs from 40 to 52 inches. Slate roof and fire clay bottom. This mine was inspected Aug. 4, 1920 and found to be in good condition on date

of inspection. Mule and motor haulage. Coal is undermined with compressed air puncher machines. Mine cars are lowered from head house to tippie, incline 1,230 feet, 18 degree pitch. Equipment: One 7 and one 7½ ton Whitcomb gasoline motors. 8 Ingersol sergeant punchers, 5 Sullivan sergeant punchers, 1 Harrison sergeant punchers, 2 jack hammers, one Ingersol and one Harrison, one 8 foot disc fan drive with 15 horse power A. C. motor. Coal from both mines comes to the same tippie, which is a wooden constructed tippie. Equipped with W. J. Savage shaker screens, and loading boom, 3 Fairmont car retarders for handling railroad cars under tippie. First aid supplies are kept in a special house at the drift mouth of each mine. A course in mining is being taught to the employees of this company, by H. B. Coleman, Engineer.

EAST HARLAN COAL COMPANY.

J. L. Smith, General Manager and Superintendent; W. L. Stalworth, Mine Foreman. Main office, Ages, Ky. Mine office, Ages, Ky.

This mine is located on Clover Fork at Ages, Ky., in Harlan County, 4 miles from Harlan, Ky., and was inspected Aug. 13, 1920 and found to be in fairly good condition on date of inspection, notice was served covering all defects. This is a drift mine working the Harlan seam of coal and coal is about 44 inches free from partings. Slate and sandstone roof and fire clay bottom. Electric haulage, 2 Jeffrey 6 ton motors. Ventilated by 6 foot Jeffrey fan. The coal is lowered from the head house over a 700 foot, 32 degree pitch incline to the wooden constructed tippie, shaker screens. Power furnished by Kentucky Utilities Company.

HARLAN COLLIER COAL COMPANY.

W. B. Whitfield, General Manager and President; H. G. Fain, Mine Foreman. Main and Mine office, Ages, Ky. River Side Mine.

This mine is located on Clover Fork at Ages, Ky., in Harlan County, 4 miles from Harlan, Ky., and was inspected Aug. 17,

1920 and found to be in good condition on date of inspection. This is a drift mine working the Harlan seam of coal and coal is 48 inches free from partings. Slate roof and fire clay bottom. Equipment: Electric haulage, one 7 ton Jeffrey motor, three No. 6 Sullivan machines. Ventilated by 7 foot S. B. Stine fan. Coal is lowered in mine cars over an 850 foot, 20 degree incline to the tippie, wooden constructed, shaker screens and loading boom. Power furnished by Kentucky Utilities Company. Capacity 500 tons per day. Two safety lamps, and first aid supplies. The Safety First is persistently impressed on all employees of this company by the managers.

SCHEWENEZER MINING COMPANY.

Z. S. Schewenezzer, General Manager and Superintendent; J. B. Hunter, Mine Foreman. Main office, Molus, Ky. Schewenezzer Mine.

This mine is located on the L. & N. R. R., at Molus, Ky., in Harlan County, 20 miles from Harlan, Ky., and was inspected Oct. 7, 1920 and found to be in fair condition on date of inspection. This is a drift mine working the Darby seam of coal, and coal is 30 inches free from parting. Slate roof and fire clay bottom. Solid shooting, furnace ventilation, mule haulage. Coal is lowered by aerial tramway 1,400 feet, 22 degree pitch to a wooden constructed tippie. Mine run is the only grade loaded. Capacity per day 40 tons.

HARLAN GEM COAL COMPANY.

Trans. L. & N. R. R.

W. H. Green, General Manager and Superintendent. Main office, Ages, Ky. Mine office, Ages, Ky.

HARLAN GEM MINE.

This mine is located on Clover Fork at Ages, Ky., in Harlan County, 4 miles from Harlan, Ky. This mine was inspected August 17, 1920 and was found to be in a fair condition on date of inspection. Notice was served covering all defects. This mine is a drift mine working the Harlan seam of coal and coal is 42 inches free from partings, soft slate roof, fire clay bottom. Mule haulage, two No. 7 Sullivan machines. Ventilated by 4

foot disc fan. The coal is lowered from the head house by aerial tramway 800 feet, 26 degree pitch to a coal bin where it is loaded into the railroad cars. Mine run being the only grade of coal loaded.

First aid supplies are kept in the mine shop.

MELCROFT COAL COMPANY.

Trans. L. & N. R. R.

H. B. Rust, President; W. F. Rust, Vice President; F. M. Medaris, Acting General Manager and Superintendent; Mine Foreman, J. S. Wallace. Main office, Pittsburg, Pa., Mine office, Coxton, Ky.

KAYU MINE.

This mine is located on Clover Fork at Coxton, Ky., Harlan County, 3 miles from Harlan, Ky. It was inspected August 18, 1920, and found to be in a fair condition on date of inspection. This is a drift mine working the Harlan seam of coal and coal is 44 inches free from partings. Slate roof and fire clay bottom.

Equipment: Electric haulage, three 5 ton Jeffery motors, 2 Goodman machines. Ventilated by 7 foot disc fan. Coal is lowered from head house by conveyors 630 feet, 22 degree pitch to the wooden constructed tipple, shaker screens, mine run coal being loaded. Power furnished by Kentucky Utilities Co. Capacity 560 tons per day.

MELCROFT COAL COMPANY.

L. Lingar, Mine Foreman.

This mine is located opposite Kayu Mine, and was inspected August 19, 1920 and found to be in a fair condition on date of inspection. This is a drift mine working the Harlan seam of coal and coal is 48 inches free from partings. Slate and sandstone roof with fire clay bottom. Electric haulage, 3 Goodman machines, four 5 ton Jeffery motors. Ventilated by 7 foot S. B. Stine fan. Coal is lowered from the head house by conveyors 750 feet, 28 degree pitch to the wooden constructed tipple, shaker screens. Mine run coal being loaded, capacity 720 tons

per day. Power furnished by Kentucky Utilities Co. First aid supplies kept in a special house at the mine.

GOLDEN ASH COAL COMPANY.

W. A. Ellison, General Manager and Superintendent; Fred Helton, Mine Foreman. Main office, Williamsburg, Ky. Mine office, Kitts, Ky.

GOLDEN ASH MINE.

This mine is located on Clover Fork, at Kitts, Ky., Harlan County, on the L. & N. R. R. 2 miles from Harlan, Ky. It was inspected August 20, 1920 and found to be in fair condition on date of inspection. Notice was served covering all defects. This is a drift mine working the Harlan seam of coal, and coal is 46 inches free from parting. Slate and sandstone roof and fire clay bottom. The coal is gathered and hauled to the head house with 3 G. E. 6 ton motors, one 6 ton Jeffrey motor, 4 C. E. No. 6 Sullivan mining machines. The coal is transferred down by a gravity plane with mine cars to a wooden constructed tipple. Preparations are being made over a Webster's shaker screen. Ventilation is produced by 8 foot disc fan. First aid supplies are kept in a special house inside of the mine.

Paintsville, Ky., February 28, 1921.

Hon. Lawson Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky.

Dear Sir:

Following is my annual report for the Seventh Mining District from July 1st, to December 31, 1920, district being composed of Johnson, Floyd, Lawrence and Martin Counties.

Trusting this report will meet with your approval, I am,

Very respectfully,

M. L. WELLS,

Assistant Inspector of Mines.

CONSOLIDATION COAL COMPANY, Mine 151, Vanlear, Ky.

E. R. Price, Manager; James Cook, Superintendent; James Worley, Mine Foreman.

This mine is located at Vanlear, Ky., on C. & O. R. R., about four miles east of Paintsville, Ky., and is working the No. 1 Kentucky Block seam. Coal is mined by electric machines and hauled by electric motors. I visited this mine July 27, and found ventilation not up to requirements of law; also trolley wires not guarded at crossings but I have been informed that these conditions have been eliminated as this company has always co-operated with Department of Mines for the safety and welfare of its miners.

CONSOLIDATION COAL COMPANY, Vanlear, Ky.

Mine No. 152. J. S. Hammonds, Mine Foreman.

The other officers same as at 151 Mine.

This mine is located at Vanlear, Ky., on C. & O. R. R., and is working No. 1 seam. Coal is mined by electric machines and hauled by electric motors. I visited this mine July 28, and found, except trolley wires not being guarded at crossings as law requires, the mine was in fair condition.

CONSOLIDATION COAL COMPANY, Vanlear Ky.

Mine 153. Wm. Harrison, Superintendent; E. L. Lambert, Mine Foreman.

This mine is located at Vanlear, Ky., and is working No. 1 seam. Coal is mined by electric machines and hauled by electric motors. The coal at this mine is lower than at the other mines, and they work it as slope to get up to tippie height. I visited this mine August 5, and found mine poorly ventilated on account of obstruction of slate in air course; also trolley wires not guarded at crossings, but I understand these conditions have been improved.

CONSOLIDATION COAL COMPANY, Vanlear, Ky.

Mine No. 154. H. E. Cecil, Mine Foreman.

This mine is located at Vanlear, Ky., and is working No. 1 seam and the same kind of machinery is used for mining and hauling coal as at their other mines at this place. I visited this mine August 6, and found ventilation not satisfactory on account of airways being blocked by slate falls, and doors in

need of repair, etc., but I have been informed that conditions have been improved.

CONSOLIDATION COAL COMPANY, Vanlear, Ky.

Mine No. 155. Hilliary Lewis, Mine Foreman; Wm. Harrison, Superintendent.

This is a slope mine and is this company's upper or last mine at this place. They have all the modern machinery for mining and hauling coal. They have a 12-foot fan which runs continuously day and night and forces 45,000 cubic feet of air in this mine per minute. I visited this mine August 7, and found mine in very fair condition.

DENVER COAL COMPANY, Denver, Ky.

This is a small mine located at Denver, Ky., on B. S. & K. R. R. and is owned and controlled by Paris Pelphrey. This mine is working No. 1, seam which is 34 inches sandstone top. Coal is shot off solid and hauled by mules. I visited this mine October 8, and found it in very fair condition.

GREEN-ROCK COAL COMPANY, Riceville, Ky.

General Office, Detroit, Mich. H. A. Fidler, President; A. H. West, Secretary-Treasurer; J. H. Longnecker, Superintendent and General Manager.

This mine is located at Riceville, Ky., on B. S. & K. R. R., about 10 miles from Paintsville, Ky., and is working No. 1 or Kentucky block seam, which is 36 inches thick. Coal is shot off solid and hauled by mules. Inspected this mine October 7, and found it not being properly ventilated on account of not having sufficient doors and brattices to conduct air to working places, also loose slate on entries, but I have been informed that these conditions have been improved.

HIGH-GRADE BLOCK COAL COMPANY, Denver, Ky.

Main Office, Williamson, W. Va. H. H. Randolph. President and General Manager; C. H. Patrick, Superintendent.

This mine is located at Denver, Ky., on B. S. & K. R. R. and is working No. 2 seam of coal which is only an average of 30 inches thick with sandstone top. They work 11 miners,

2 ponies and one mule. Coal is shot off solid and ventilated by small fan, run by gasoline engine. Inspected this mine October 8, and found it in fair condition.

ROYAL COLLIERIES COAL COMPANY, Offut, Ky.

Fred E. Jones, General Manager; J. R. Johnson, Superintendent; James Blevins, Mine Foreman. General Office, Jackson, Ohio.

This mine is located at Offut, Ky., on C. & O. R. R. about six miles west of Paintsville, Ky. This is a slope mine and is working the No. 1 Kentucky block seam. Coal is mined by electric machines and hauled by electric motors. I visited this mine July 6, and found ventilation very poor, as they were using an old type of steam fan which did not give satisfaction. I recommended a new fan at that time and am glad to say that they have complied with my request and now have new electric fan installed that gives proper results.

NORTHEAST COAL COMPANY, Paintsville, Ky.

Mine No. 1. Henry Phening, Mine Foreman.

This mine is located about 2 miles west of Paintsville, Ky., on what is known as Muddy Branch and is working No. 1 seam. Coal is mined by electric machines and hauled by electric motors. I visited this mine July 8, 1920, and found it in satisfactory condition in every respect.

NORTHEAST COAL COMPANY, Paintsville, Ky.

Mines No. 3 and 4. Harry Davis, Mine Foreman.

These are two separate mines as No. 3 is on what is known as Toms Creek, but coal is hauled and dumped over No. 4 tippie by way of tunnel through hill. They are both equipped with electric machines and coal is hauled by electric motors. I visited these mines July 9 and found them in very fair condition.

NORTHEAST COAL COMPANY, White House, Ky.

Main Office, Paintsville, Ky. Mine No. 15. A. D. W. Smith, President; H. Lavers, Manager; R. C. Thomas, Superintendent; H. D. Jones, Mine Foreman.

This mine is located at Whitehouse, Ky., on C. & O. R. R., and was formerly operated by Fluhart Collieries Company, of Dayton, Ohio. This is a shaft mine being 110 feet deep, and is working No. 1 seam which is an average of 36 inches thick. Coal is mined by electric machines and hauled by electric motors. I visited this mine July 5, and found not sufficient clearance on entry and ventilation not very good on account of air shaft in need of repair and brattices in poor condition. Also no safety gates at top of shaft, but as this company has always co-operated with department at their other mines, I am confident that this mine will be put in good condition in a short time.

TORCHLIGHT COAL COMPANY, Torchlight, Ky.

W. L. Taylor, President; C. E. Stafford, Vice-President and General Manager; M. S. Taylor, Secretary-Treasurer; A. G. Toney, Mine Foreman.

This mine is located on C. & O. R. R., about six miles east of Louisa, Ky. This is a very old mine, almost exhausted. They have five small openings at this place, which is mostly crop work. Coal is mined by electric machines and hauled by electric motors. This seam of coal at this place has about four feet of fire clay over top, and this company is installing a large brick plant for the manufacture of fire brick. I visited this mine December 6, and except trolley wires being in pretty bad condition outside, mine was in fair condition.

SURE-BURN COAL COMPANY, Richardson, Ky.

M. O. Randolph, Superintendent and Manager. H. H. Randolph, Secretary-Treasurer. Main Office, Williamson, W. Va.

This mine is located about three miles east of Richardson, Ky., on branch of C. & O. R. R., and is what is known as the Old Peach Orchard Mine, having been in operation for a number of years. This goes by the name of Old Peach Orchard seam of coal, but is thought by some people to be the Winifrede seam. Coal is shot off solid and hauled by mules; ventilated by furnace. Inspected this mine December 2, and found it not properly ventilated on account of poor brattice and doors, as the air was allowed to short circuit. Other conditions satisfactory.

CRYSTAL BLOCK COAL COMPANY, Richardson, Ky.

J. W. Stewart, President; J. E. Pinson, Superintendent and Manager.

This mine is located on branch line of C. & O. R. R., about two miles from Richardson, Ky. The coal at this place is about five and one-half feet with an 18-inch parting in center which is white slate. Coal is shot off solid and hauled by mules. I visited this mine December 2, and found it in very fair condition.

HIMLER COAL COMPANY, Warfield, Ky.

Main Office, Warfield, Ky. Martin Himler, President and General Manager; Louis Hanczinger, Vice-President; E. J. Lang, Secretary and Treasurer; E. M. Brown, Superintendent; L. A. Bowes, Mine Foreman.

This mine is located at Warfield, Martin County, Ky., on N. W. R. R., and is working what they call Buck Creek Block or No. 2 gas seam. This Company has a lease of 3,000 acres and started development work, sinking shaft and slope in August, 1919. The development work is nearing completion and expect to begin shipping coal in May, 1921. They have an all steel tippie, able to handle 2,500 tons in eight hours; a powerhouse equipped with five boilers 200 H.P. each. Also intend using three 50 H. P. short wall Goodman mining machines, and three Ironton storage battery locomotives. These have been ordered and not yet delivered. This Company has been shipping coal at Kermit, W. Va., for some time which is hauled by wagons across river. At present coal is shot off solid and hauled by mules. I visited this mine on the 9th of November, and found ventilation not up to requirements of law; also drainage not very good in places. Also found this mine is generating some gas, which could be lighted in drill holes. Recommendations were made to put Fire Boss in charge of this mine and keep fan running continuously day and night, which I am pleased to say they have expressed their willingness to co-operate and live up to the letter of the law.

EARLSTON COAL COMPANY, Kermit, W. Va.

J. D. McLaughlin, Superintendent; C. A. Peake, Mine Foreman.

This mine is located just across the river from Kermit, W. Va., in Martin County, and is working No. 2, Gas or Pondcreek seam. Coal is shot off solid and hauled by mules and ponies to outside of mine and then hauled by wagons across river to Kermit and loaded in railroad cars. This mine has been affected by strike for some time and was only working a few men. I visited this mine November 9, and found it in very fair condition.

FLOW MINING COMPANY, Kermit, W. Va.

D. W. Farquharson, President and General Manager; P. M. Farquharson, Superintendent and Mine Foreman.

This mine is located on Wolf Creek in Martin County, Ky., about one mile east of Kermit, W. Va., on N. W. R. R., and is working what is called No. 2 Gas or Pondcreek seam. This mine has also been affected by strike for several months, only working a few men. I visited this mine November 10, and found it in satisfactory condition. Coal is shot off solid and hauled by mules and ventilated by fan.

NORTHEAST COAL COMPANY, Auxier, Ky.

Mine No. 7. A. D. W. Smith, President; H. Laviers, General Manager; John Laviers, Mine Superintendent; Frank Cunningham, Mine Foreman.

This mine is located at Auxier, Ky., on C. & O. Railroad and is working No. 1 seam of coal, which is 46 inches clean coal. Coal is mined by electric machines, and hauled by electric motors. I visited this mine August 11, and found it in very fair condition.

NORTHEAST COAL COMPANY, Auxier, Ky.

Mines No. 9 and 10. T. Hopson, Assistant Mine Foreman.

These mines are located on John's Creek, but the coal is brought through tunnel and dumped over No. 7 tippie. They are working the same seam of coal, and use the same kind of

machinery as at their other mine. I visited these mines August 12, and found them in very fair condition.

ELKHORN COAL CORPORATION, Garrett, Ky.

Mine No. 325. W. D. Mosely, Superintendent; E. R. Gill, Mine Foreman.

This mine is located at Garrett, Ky., on C. & O. Railroad, and is working No. 1 Elkhorn seam which is only about 36 inches thick, with mostly all sandstone top. Coal is mined by electric machines and hauled by electric motors. I visited this mine August 17, and with the exception of trolley wires not being properly guarded, this mine was in very fair condition.

ELKHORN COAL CORPORATION, Garrett, Ky.

Mine No. 326. W. H. Brack, Mine Foreman.

This is a slope mine and is working No. 1 Elkhorn seam of coal which is 46 inches thick. This mine has very bad roof conditions and they use cross timbers on most all entries. I visited this mine August 18, and found they had just started operation after being closed down for more than a year. The ventilation was not very good at working places; also some loose slate on entries, but they had a force of men taking down slate, and building brattices, which will make conditions much better. This mine is also electrically equipped for mining and hauling coal.

ELKHORN COAL CORPORATION, Garrett, Ky.

Mine No. 327. R. D. Gill, Mine Foreman.

This is the largest mine this company operates at this place. Works the same seam of coal which is 48 inches thick at this place. Coal is mined and hauled by electric machinery. I visited this mine August 18, and except trolley wires not guarded at all places, this mine was in very fair condition.

ELKHORN COAL CORPORATION, Wayland, Ky.

Mine No. 328. D. A. Stover, Superintendent; R. S. Cole, Mine Foreman.

This mine is located at Wayland, Ky., on C. & O. railroad.

This mine is working No. 1 seam and the coal is mined by electric machines and hauled by electric motors. I visited this mine August 20, and except trolley wires not guarded it was in fair condition.

ELKHORN COAL CORPORATION, Wayland, Ky.

Mine No. 329. J. E. Powellson, Mine Foreman.

This mine is also located at Wayland, Ky., and is working the same seam of coal, and same kind of machinery being used for mining and hauling coal. I visited this mine August 19, and found it in very fair condition.

ELKHORN COAL CORPORATION, Wayland, Ky.

Mine No. 330. C. E. Montgomery, Mine Foreman.

This mine is located at Wayland, Ky., and is working No. 1, Elkhorn seam which is 46 inches thick. Coal is mined by electric machines and hauled by electric motors. I visited this mine August 20, and found it in very fair condition.

ELKHORN COAL CORPORATION, Wayland, Ky.

Mine No. 331, G. P. Bailey, Mine Foreman.

This mine has just recently started operation after being closed for about one year, and is located near 328 Mine, and the same tippie is used for both mines. I visited this mine December 10, and found ventilation not up to requirements of law. Also loose slate and coal on entries, but as this company has always co-operated with department at their other operations, I am confident these conditions will be improved at an early date.

ELKHORN COAL CORPORATION, Wheelwright, Ky.

Mine No. 377. D. L. Coulter, Superintendent; J. P. Nicholson, Mine Foreman.

This mine is located at Wheelwright, Ky., on B. & O. Railroad and is working No. 1 Elkhorn seam, which is 46 inches thick. Coal is mined by electric machines and hauled by electric motors. This mine has very bad roof conditions which is a slippery or soft slate. I observed places that the slate had fallen out on some entries a distance of 12 to 15 feet high, but

they use all precautions and keep a force of men to look after and take down or timber all loose and dangerous slate. At this particular mine they have used the cement gun on all entries, both roof and walls, covering or coating with thin layer of cement to exclude the air from the top or walls, but this doesn't seem to give very good satisfaction. I visited this mine November 19, and found it in very fair condition.

ELKHORN COAL CORPORATION, Wheelwright, Ky.

Mine No. 379. Joseph Sheader, Mine Foreman.

This mine is located on opposite side of creek from 377 Mine, but is working same seam of coal and is also electrically equipped for mining and hauling coal. I visited this mine November 18 and found ventilation not up to requirements of law; also trolley wires not properly guarded, but they had a force of men working on this, putting in overcasts and building new brattices, which will make conditions satisfactory.

ELKHORN COAL CORPORATION, Wheelwright, Ky.

Mine No. 380. Joe Johnson, Mine Foreman.

This mine is located on head of Jacks Creek, but coal is hauled through the mountain by tunnel and dumped over 379 tipple, and is working same seam of coal as their other mines and use same kind of machinery for mining and hauling. I visited this mine November 18, and found it in very fair condition.

ELKHORN-PINEY COAL MINING COMPANY,

Weeksbury, Ky.

Main Office, Huntington, W. Va. Mine No. 1. Garner Fletcher, General Manager; G. C. Wolfe, General Superintendent; F. M. Addis, Mine Superintendent; Ernest Logan, Mine Foreman.

This mine is located at Weeksbury, Ky., on Long Fork Division B. & O. R. R. and is working No. 1 Elkhorn seam of coal, which is 46 inches thick. They use all modern electric appliances for mining and hauling coal. This is the largest mine this company is operating at this place as they work inside mine 126 miners and day men, and at this particular mine they use the checking in and out system for all men that

work inside mine, which is being carried out in satisfactory manner to all employes. I visited this mine November 17, 1920, and found all conditions satisfactory.

ELKHORN-PINEY COAL MINING COMPANY,
Weeksbury, Ky.

Mines No. 3 and 4. Same officers in charge as at their other mines; working same seam of coal, being 42 inches thick. Coal is mined by electric machines and hauled by electric motors. I visited these mines November 16, and found them in very fair condition.

ELKHORN-PINEY COAL MINING COMPANY,
Weeksbury, Ky.

Mine No. 7. J. W. Hager, Mine Foreman.

This is a drift mine working about 36 men and ventilated by fan. Coal is mined and hauled by electric machines. I visited this mine November 16, and found ventilation not very good on account of brattices in need of repair. Other conditions satisfactory.

NORTHERN-ELKHORN COAL COMPANY, Northern, Ky.

Cal Clark, President; S. C. Ferguson, Secretary-Treasurer; Harry Cooley, Mine Foreman.

This mine is located at Northern, Ky., on C. & O. R. R., about twelve miles from Beaver Creek Jct. This company has two openings at this place which are in separate seams about 100 feet apart. Each mine is ventilated by furnace. Coal is shot off solid and hauled by mules, and use the same tippie. I visited this mine October 28, and found No. 1 Mine poorly drained; also pretty bad roof conditions. I left instructions to install a pump to take care of water, also take down all loose slate.

ROYAL-ELKHORN COAL COMPANY, McDowell, Ky.

Main Office, Toledo, Ohio. H. L. Poole, President; W. W. Tibbals, General Manager; C. E. Tibbals, Superintendent; George Wilburn, Mine Foreman.

This mine is located at McDowell, Ky., on B. & O. R. R., and is working No. 2 Elkhorn seam which is 42 inches thick. Coal is clean. I visited this mine October 20, and found it in satisfactory condition.

BUCKS-BRANCH COAL COMPANY, Smalley, Ky.

Main Office, Lynchburg, Va. Sam M. Lambert, President; C. E. McKinney, Secretary-Treasurer, J. H. Davidson, Superintendent.

This mine is located at Smalley, Ky., on C. & O. R. R. about five miles from Beaver Creek Jct., and working No. 2 Elkhorn seam which at this particular place is only an average of 28 inches thick. Coal is shot off solid and hauled by mules. Ventilated by fan. I visited this mine October 28, and found it in very fair condition.

EDGEMONT FUEL COMPANY, Minnie, Ky.

Main Office, Ashland, Ky. T. A. Field, President; J. T. Field, Vice-President; A. W. Humphrey, Secretary-Treasurer; J. W. Cockill, Superintendent; J. H. Willson, Mine Foreman.

This mine is located at Minnie, Ky., on Long Fork Division B. & O. R. R. and is working No. 1 Elkhorn seam, which is 42 inches clean coal and has slate top in most all places. Coal is shot off solid and hauled by mules and ponies. I visited this mine October 8, and found it in very fair condition.

McGUIRE-ELKHORN COAL COMPANY, Smalley, Ky.

Main Office, Prestonburg, Ky. H. C. McGuire, Superintendent and Manager; S. C. Ferguson, Secretary-Treasurer; C. A. Amburgy, Mine Foreman.

This mine is located at Smalley, Ky., on C. & O. R. R., about about five miles east of Beaver Creek Jct., and is working No. 4 Elkhorn seam, which is 48 inches thick with 4-inch parting near bottom. Coal is shot off solid and hauled by mules. Ventilated by furnace. I visited this mine December 8, and found it in very fair condition.

ANCHOR COAL COMPANY, Prestonsburg, Ky.

John Hopkins, President and General Manager; W. H. Layne, Secretary and Treasurer; J. T. Fugitt, Mine Foreman.

This mine is located six miles east of Prestonsburg, Ky., on C. & O. R. R. and is working No. 1 Elkhorn seam. Coal is shot off solid, and hauled by mules. I visited this mine September 30, and found mine not being properly ventilated as the furnace was not in satisfactory condition. Since this time I have learned that a fan has been installed to take the place of furnace which gives good results. All other conditions satisfactory.

COW CREEK COAL COMPANY, Emma, Ky.

Main Office, Prestonsburg, Ky. Hiram Harris, President; S. E. Allen, Superintendent and Manager; Theodore Hopson, Mine Foreman.

This mine is located about eight miles east of Prestonsburg, Ky., on C. & O. R. R. and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules, and ventilated by furnace. I visited this mine September 30, and found mine not properly ventilated, as furnace was not giving good results. All other conditions satisfactory.

BLUE-BEAVER ELKHORN FUEL COMPANY, Lygon, Ky.

Main Office, Prestonsburg, Ky. James Sallesbury, President; C. Y. Lygon, General Manager; George Rorer, Superintendent; S. E. Bingham, Mine Foreman.

This mine is located at Lygon, Ky., on left fork of Beaver Creek. They have branch line of about four miles in distance which makes connections with B. & O. R. R. at Clear Creek Station. This mine has been in operation only about one year and is working No. 2 Elkhorn seam which is 60 inches coal with three inches fireclay parting. Coal is mined by electric machines and hauled by electric motors. I visited this mine October 13, and with the exception of trolley wires not being guarded at crossing, this mine was in very fair condition.

ELKHORN STAR COAL COMPANY, Minnie, Ky.

Mine No. 1. Main Office, Pikeville, Ky. W. D. Sutton, President and General Manager; S. C. Otis, Vice-President and Secretary; W. W. Gray, Treasurer.

This mine is located at Minnie, Ky., on B. & O. R. R. and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules and ponies. I visited this mine October 19 and found that slate had accumulated on both sides of track in main entry, which obstructed the clearance as required by law. I was assured this would be attended to at once. Other conditions satisfactory.

SANDY RIVER COAL COMPANY, Williamsport, Ky.

C. C. Ward, Superintendent; I. S. Wells, Mine Foreman.

This mine is located at Williamsport, Ky., about three miles from C. O. R. R. at Offutt, Ky. This mine is still owned by Sandy River Coal Co., of Ohio, but is being worked under lease by Ayers & Lang, Detroit, Mich. Coal is shot off solid and hauled by mules, and is ventilated by furnace. I visited this mine July 7, and found mine not being properly ventilated as furnace was not giving good results. I recommended either install a fan or repair furnace. I made another visit to this mine August 30, at which time they had repaired furnace, also put up new brattice and doors and made all conditions satisfactory.

ELKHORN STAR COAL COMPANY, Mine No. 2, Minnie, Ky.

This mine is located at Minnie, Ky., on B. & O. R. R. The same officers in charge as No. 1 Mine except W. I. Meyers, Mine Foreman. This mine is working No. 1 Elkhorn seam, which has slate roof that scales pretty bad in places. Coal is shot off solid and hauled by mules. I visited this mine October 19, and found cross cuts between pillars not being made according to law. Also some loose slate in entries but was assured this would be attended to at once.

SUPERIOR ELKHORN COAL COMPANY, Hueysville, Ky.

Main Office, Ashland, Ky. R. D. Clere, President, Secretary and Treasurer; J. F. Brown, Manager.

This mine is located at Hueysville, Ky., on Right Fork of Beaver Creek on C. O. R. R., working No. 1 Elkhorn seam, which is about 42 inches thick with sandstone top. Coal is shot off solid and hauled by mules. I visited this mine October 26, and found ventilation not up to requirements of law,

on account of using curtains for doors which did not give results.

WELLS-ELKHORN COAL COMPANY, Hueysville, Ky.

Main Office, Ashland, Ky. Jno. E. Buckingham, President; Harry C. Howes, Manager; F. H. Cooley, Mine Foreman.

This mine is located at Hueysville, Ky., on C. O. R. R. and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules. Mine is ventilated by fan. I visited this mine October 27, and found ventilation not good on account of doors and brattices being in poor condition, but I was assured by Mr. Cooley, the mine foreman that these conditions would be improved immediately.

WELLS-ELKHORN COAL COMPANY, Estell, Ky.

Main Office, Ashland, Ky. Jno. E. Buckingham, President; Harry C. Howes, Manager.

This mine is located on Right Fork of Beaver Creek on C. O. R. R. at Estell, Ky., and is working No. 1 Elkhorn seam which has slate roof. Coal is mined by electric machines and hauled by electric motors. This is a new mine only been operating about one year and when inspected by me July 20, their trolley wires were in bad condition and not guarded at crossings; also not enough timbers being set in working places. Other conditions satisfactory.

LIBERTY COAL CORPORATION, Main Office, McDowell, Ky.

Officers: Charles Enzian, President and General Manager; Chas. Osborn, Vice-President, Secretary and Treasurer; Noah Hopper, Mine Foreman.

This mine is located at McDowell, Ky., on Long Fork Division B. & O. R. R. and is working No. 2 Elkhorn seam which is 44 inches clean coal, no parting. Coal is shot off solid and hauled by mules. I inspected this mine October 20, and found ventilation not up to requirements of the law. Also not enough timbers being set in working places, but since that time I have been informed a fan has been installed which gives satisfaction, also that miners set more timbers in working places.

CUMBERLAND COAL AND COKE COMPANY, Melvin, Ky.

Main Office, Ashland, Ky. Jno. E. Buckingham, President; J. N. Meek, Manager.

This mine is located at Melvin, Ky., on B. & O. R. R. and is working No. 2 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine October 12, and found it in very fair condition.

ELKHORN-BLOCK COAL COMPANY, Orkney, Ky.

Main Office, Ashland, Ky. H. A. Borders, President and General Manager; J. C. Hatcher, Vice-President; F. L. Stewart, Secretary and Treasurer.

This mine is located at Orkney, Ky., Borders Station, B. & O. R. R., and is working No. 3 Elkhorn seam. Coal is mined by electric machines and is hauled by mules at present. I visited this mine October 13, and found ventilation not good at working places on account of brattices and doors being poorly built. Also cross-cuts not being made at proper distance.

LORAIN-ELKHORN COAL COMPANY, Melvin, Ky.

Main Office Prestonsburg, Ky. G. B. Archer, President; W. H. Craft, Manager; John Harmon, Mine Foreman.

This mine is located at Melvin, Ky., on B. & O. R. R., and is working No. 2 Elkhorn seam, which has an average thickness of 36 inches clean coal with sandstone top. Coal is shot off solid and hauled by mules, and ventilated by furnace. Inspected this mine October 12, and found ventilation not very good on account of furnace not giving very good satisfaction.

BEAVER-ELKHORN COAL COMPANY, Bevinsville, Ky.

Main Office, Ashland, Ky.

Jno E. Buckingham, President; Albert Perry, Superintendent.

This mine is located at Bevinsville, Ky., on Long Fork Division B. & O. Ry., and is working No. 2 Elkhorn seam. Coal is shot off solid and hauled by mules. Ventilated by fan. Inspected this mine October 11, and found it in very fair condition.

COLLINS MINING COMPANY, Lackey, Ky.

Fred Blackburn, Manager; James Collins, Mine Foreman.

This mine is located at Lackey, Ky., on C. & O. R. R. and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules. Inspected this mine July 22, and found it in very fair condition.

COLONIAL COAL COMPANY, Prestonsburg, Ky.

Mines No. 1 and 2. H. S. Boling, Mine Foreman.

This mine is located at Prestonsburg, Ky., on C. & O. R. R. and is working No. 1 seam of coal. This is an old mine, coal almost exhausted except some pillar work. Coal is mined by electric machines and hauled by electric motors. Inspected this mine October 5, and except trolley wires being in pretty bad condition outside mine, it was in fair condition.

COLONIAL COKE AND COAL COMPANY, Prestonsburg, Ky.

Mine No. 5. C. W. Evans, Superintendent; Oscar Stewart, Mine Foreman.

This mine is located at Prestonsburg, Ky., on east side of river from C. & O. R. R. Coal is brought across the river to railroad by aerial tramway. This mine is working No. 1 or Miller's Creek Block seam, which is 42 inches clean coal with sandstone top. Coal is mined by electric machines and hauled by electric motors. Inspected this mine October 5, and found ventilation not up to requirements on account of bad doors, etc. Other conditions satisfactory.

VIRGINIA MINING COMPANY, Allen, Ky.

Hiram Harris, President; John Hunley, Vice-President and Manager; Sam. L. Spradlin, Secretary and Treasurer. Main Office, Prestonsburg, Ky.

This is a small mine located at Allen, Ky., or Beaver Creek Jet., on C. & O. R. R. and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine September 28, and found it in satisfactory condition.

WALDON COAL COMPANY, Emma, Ky.

Hiram Harris, President; Sam S. Spradlin, Secretary and Treasurer; S. E. Allen, Superintendent; J. E. Ball, Mine Foreman.

This mine is located at Emma, Ky., on C. & O. R. R. and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine September 29, and found mine not properly ventilated on account of leaky doors and brattices.

PRESTONSBURG COAL COMPANY, Prestonsburg, Ky.

J. W. Alley, Superintendent and Manager.

This mine is located a short distance east of Prestonsburg, Ky., on C. & O. R. R., and is an old mine, working No. 1 seam which is just about exhausted. Coal is mined by electric machines and hauled by electric motors. Inspected this mine September 10, and found it in fair condition.

DWALE COAL COMPANY, Allen, Ky.

John H. Kresge, President; Dan D. Williams, General Manager; J. L. Nunley, Superintendent; D. W. Martin, Mine Foreman.

This mine is located at Dwale, about one mile west of Allen, Ky., or Beaver Creek Jct., on C. & O. R. R., and is working No. 1 Elkhorn seam. The coal is mined by electric machines and hauled by mules. Inspected this mine September 28, and found it in very fair condition.

MIDDLE CREEK COAL COMPANY, Prestonsburg, Ky.

G. E. Archer, Superintendent and Manager; Lee Salmons, Mine Foreman.

This mine is located at Prestonsburg, Ky., on C. & O. R. R., and is working No. 1 seam. Coal is mined by electric machines and hauled by electric motors. I visited this mine September 9, and found it in satisfactory condition.

MARTHA LESLIE COAL COMPANY, Emma, Ky.

Hiram Harris, President; S. E. Allen, Superintendent and

Manager; J. E. Ball, Mine Foreman. Main Office, Prestonsburg, Ky.

This mine is located at Emma, Ky., on C. & O. R. R., about eight miles east of Prestonsburg, Ky., and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine September 29, and found it in fairly good condition in every respect.

BLUE BEAVER COAL COMPANY, Prestonsburg, Ky.

Mines No. 1 and 2. C. Y. Lygon, Superintendent and Manager.

These mines are located at Prestonsburg, Ky., on C. & O. R. R., and are working Nos. 1 and 2 seams, which are about 100 feet apart. Coal is mined by electric machines and hauled by electric motors, and ventilated by fans. The same tippie is used by both mines. I inspected these mines September 8, and found trolley wires not guarded at crossings. Also full barrel black oil stored inside mines. Other conditions satisfactory.

BIG ELKHORN COAL COMPANY, Betsey Layne, Ky.

M. C. Justice, President; C. Jones, Vice-President; G. H. Justice, Superintendent.

This mine is located at Betsey Layne, Ky., on C. & O. R. R. and is working No. 1 Elkhorn seam. Coal is mined by electric machines and hauled by Iron-ton storage battery motors. I visited this mine September 22, and found it in very fair condition.

THE CLIFF COAL COMPANY, Cliff, Ky.

Main Office, Portsmouth, Ohio. B. V. Vincent, President; H. C. Stalder, Secretary and Treasurer; G. B. Hughes, Superintendent; John Branham, Mine Foreman.

This mine is located at Cliff, Ky., about one mile west of Prestonsburg, Ky., on C. & O. R. R. It is a slope mine, or at least is being worked as a slope as the coal is below tippie height. They are working the No. 1 seam which is about 36 inches thick, coal is mined by electric machines and hauled by electric motors, and is ventilated by fan which is run by

steam. Inspected this mine September 7, and found that trolley wires were hanging loose in places, and not guarded at crossings where miners travel to and from work. I made recommendations that wires be tightened up and more hangers be put in on main entry, and also to be guarded at crossings. I had a letter from this Company immediately after informing me this would be attended to at once.

REGAL-BLOCK COAL COMPANY, Ivel, Ky.

Main Office, Marytown, W. Va. Joseph Fleenor, President; J. H. Anderson, Secretary-Treasurer; R. E. Ellis, Superintendent.

This mine is located at Ivel, Ky., on C. & O. R. R. and is working No. 2 Elkhorn seam. Coal is shot off solid and hauled by mules, and ventilated by furnace. I visited this mine September 28, and found ventilation not very good as furnace does not give proper results. Other conditions fairly good.

FLOYD-ELKHORN CONSOLIDATED COLLIERIES COMPANY, Drift, Ky.

G. C. See, Superintendent; John Willson, Mine Foreman.

This mine is located at Drift, Ky., on B. & O. R. R. and is working No. 2 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine August 27, and found it in very fair condition.

MALONE-ELKHORN COAL COMPANY, Allen, Ky.

P. H. Malone, President; J. M. Donelson, Vice-President; F. J. Malone, Secretary and Treasurer; T. S. Erstkine, Mine Foreman.

This mine is located at Allen, Ky., near Beaver Creek Jct., on C. & O. R. R., and is working No. 2 Elkhorn seam. Coal is shot off solid and hauled by mules. This mine has only been in operation about one year and when inspected by me September 24, I found that cross-cuts or break-throughs were not being made according to law. Other conditions fairly good.

LONG BRANCH COAL COMPANY, Drift, Ky.

W. F. Ellis, Superintendent; A. H. Perry, Mine Foreman. Main Office, Ashland, Ky.

This mine is located at Drift, Ky., on B. & O. R. R., and is working No. 2 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine August 26, and found it in very fair condition.

J. N. MEEK COAL COMPANY, Drift, Ky.

This mine is located at Drift, Ky., on B. & O. R. R. and was formerly Black Beaver Coal Company, and is owned exclusively by J. N. Meek, of Paintsville, Ky., who is President and General Manager; G. B. Meade, Mine Foreman. This mine is working No. 2 Elkhorn seam which is 42 inches clean. Coal is shot off solid and hauled by mules. I visited this mine August 26, and found it in very fair condition.

KENTUCKY BEAVER COLLIERIES COMPANY, Banner, Ky.

Main Office, Chicago, Ill. C. C. Whittier, President; Jas. C. Halstead, Vice-President; Wm. Pack, Superintendent and Mine Foreman.

This mine is located on Big Sandy Division C. & O. R. R., about one mile east of Beaver Creek Jet., and is working No. 4 Elkhorn seam. This mine has only been in operation about one year and at the present time coal is being shot off solid and hauled by mules, but electric machinery is being installed at this time. The coal at this mine is 51 inches thick and has 18-inch parting, white slate near center of seam. I visited this mine November 29, and found mine not being well ventilated on account of size of fan which is too small, but I was informed that a new and larger fan would be installed in the near future.

PRINTER-ELKHORN COAL COMPANY, Printer, Ky.

W. F. Ellis, Superintendent and Manager. Main Office, Ashland, Ky.

This is a small mine located at Printer, Ky., on B. & O. R. R. Coal is shot off solid and hauled by mules. I visited this mine August 26, and found it very poorly ventilated on account of doors and brattices not being properly built and not sufficient clearance on entries, as slate was allowed to accumulate on both sides of track on haulways.

BEAVER CREEK COAL COMPANY, Alphoretta, Ky.

C. K. Holt, Superintendent; A. L. Tackett, Mine Foreman.

This mine is located at Alphoretta, Ky., on B. & O. R. R., and is working No. 1 Elkhorn seam. Coal is mined by electric machines and hauled by electric motors. I visited this mine August 25, and found ventilation not up to requirements of law, trolley wires not guarded at crossings. Also not sufficient clearance on entries in some places.

TRIVETTE ELKHORN COAL COMPANY, Smalley, Ky.

This was formerly Kentucky Block Coal Company, and is located at Hite Station on B. & O. R. R., about seven miles from Beaver Creek Jet., and is working No. 1 Elkhorn seam, which is 36 inches thick with sandstone top. Coal is shot off solid and hauled by mules, and ventilated by furnace which does not give satisfaction. I visited this mine August 25, and found ventilation very poor. I recommended that furnace be repaired so as to give better results or install a fan to comply with law.

PIVOT ROCK COAL COMPANY, Smalley, Ky.

R. V. Wolford, Superintendent and Manager; G. C. Stevens, Mine Foreman.

This mine is located near Smalley, Ky., on B. & O. R. R., and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine August 25, and found it in very fair condition.

SAMOSSET FUEL CORPORATION, Smalley, Ky.

W. S. Frazier, Superintendent; Mose Miller, Mine Foreman.

This mine is located at Smalley, Ky., on B. & O. R. R., about six miles from Beaver Creek Junction, and is working No. 2 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine August 24, and found it in very fair condition.

SAINT PAUL COAL COMPANY, Betsey Layne, Ky.

Main Office, Betsey Layne, Ky. W. C. Howes, President; A. M. Layne, Vice-President; O. J. Williams, Treasurer and General Manager; D. Huffman, Mine Foreman.

This mine is located near Betsey Layne, Ky., on C. & R. R. This is a new mine, only began shipping coal about April of 1920, and is working No. 1 Elkhorn seam which is about 46 inches thick, no parting. Coal is shot off solid and hauled by storage battery locomotive. The coal at this point is below tippie height, and the opening or drift comes out under or below railroad, where they use engine to hoist the coal up in tippie to be dumped in cars. I visited this mine September 22, and except the main entry not being very well drained, this mine was in very fair condition.

LAYNE COAL COMPANY, Harald, Ky.

H. H. Layne, President; J. C. Layne, Vice-President; James B. Layne, Secretary; Dallas Layne, Treasurer.

This mine is located about one mile west of Harald, Ky., on C. & O. R. R. and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules and is ventilated by fan. I visited this mine September 21, and found mine not very well drained as water was standing on entries. All other conditions satisfactory.

HARALD COAL & COKE COMPANY, Harald, Ky.

C. Markley, President; S. C. Markley, Secretary and Treasurer; J. P. Small, Superintendent and Manager; H. C. Roskey Mine Foreman. Main Office, Roanoke, Va.

This mine is located at Harald, Ky., on C. & O. R. R. and is working No. 1 Elkhorn seam which is about 66 inches thick with 24-inch parting white slate near center. They use for mining this coal are wall machines, and it is hauled by electric motors. I visited this mine on September 2, and found it in satisfactory condition, in every respect.

PURITY CANNEL COAL COMPANY, Prestonsburg, Ky.

John Hunly, Superintendent and General Manager; S. D. Spradlin, Secretary and Treasurer.

This mine is located on C. & O. R. R., about one mile west of Prestonsburg, Ky., and is working No. 2 seam which is about 42 inches thick. This seam has about 12 inches of canal at bottom. Coal is shot off solid and hauled by mules and

is ventilated by furnace. I visited this mine November 30, and found ventilation not very good on account of doors and brattices not being put up at proper places to conduct the air to working face. Also miners allowed to use steel tamping bars instead of copper. I was assured these conditions would be attended to at once.

STANDARD-ELKHORN COAL COMPANY, Lackey, Ky.

A. J. Johnson, Manager; Jack Johnson, Mine Foreman.

This mine is located at Garrett, Ky., on C. & O. R. R. and is working No. 1 Elkhorn seam, which is about 60 inches at this place with about 12 inches of this cannel and is loaded in separate cars by the miners. Coal is shot off solid and gathered to siding with mules, and from this point they use rope haulage to outside or tipple. I visited this mine July 23, and found it in satisfactory condition.

GOODIN AND BARNEY COAL COMPANY, Garrett, Ky.

John Barney, Manager; H. N. Rager, Mine Foreman.

This mine is located at Garrett, Ky., on C. & O. R. R. and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine July 23, and found it in fair condition.

ZELLA MINING COMPANY, Lackey, Ky.

Main Office, Ashland, Ky. R. D. Clere, President, Secretary and Treasurer; J. F. Brown, Manager; John Sturgell, Mine Foreman.

This mine is located at Lackey, Ky., on C. & O. R. R., and is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine July 22, and found it in very satisfactory condition.

LACKEY MINING COMPANY, Lackey, Ky.

R. D. Clere, President, Secretary-Treasurer; J. F. Brown, Manager; George Lyons, Mine Foreman. Main Office, Ashland, Ky.

This mine is located at Lackey, Ky., on C. & O. R. R. and is working No. 1 Elkhorn seam. I visited this mine July 21,

and found it in very fair condition. Coal is shot off solid and hauled by mules, and ventilated by fan.

BLACK DIAMOND COAL COMPANY, Lackey, Ky.

Jno. E. Buckingham, President; Harry C. Howes, Manager.
Main Office, Ashland, Ky.

This mine is located at Lackey, Ky., on right fork of Beaver Creek on C. & O. R. R., about 17 miles from Beaver Creek Junction. This mine is working No. 1 Elkhorn seam. Coal is shot off solid and hauled by mules. I visited this mine July 20, and found ventilation not very good. Also some loose slate on entries, which I was assured would be attended to at once.

STOVER-ELKHORN COAL COMPANY, Lackey, Ky.

Branch Robinson, Superintendent and Mine Foreman.

This mine is located at Lackey, Ky., on C. & O. R. R., about 18 miles from Beaver Creek Junction, and is working No. 1 Elkhorn seam. Coal is mined by electric machines and hauled by electric motors. I visited this mine July 19, and found same in following conditions: Very poorly ventilated on account of doors and brattice being in bad condition; also obstruction of slate in air course. I recommended that doors and brattices be repaired or rebuilt, also that miners be required to set more timbers in working places, so as to eliminate a possible accident. Also trolley wires were not guarded at crossings as law requires, but I was assured then and have been informed that these conditions have been greatly improved.

ELKHORN COLLIERIES COMPANY, Bevinsville, Ky.

Main Office, Huntington, W. Va. B. L. Priddie, President;
R. W. Brunk, General Manager; W. N. Cross, Mine Foreman.

This mine is located at Bevinsville, Ky., on B. & O. R. R., and is working No. 3 Elkhorn seam, which is very high on hill. They use aerial tramway which is 1,400 feet long that carries the coal in 2½-ton buckets to tipple. This mine is ventilated by furnace. Coal is shot off solid and hauled by mules. I visited this mine October 14, and found ventilation not good as the furnace did not give good results but I have been in-

formed that furnace has been repaired and does considerably better. All other conditions satisfactory.

DESCRIPTIVE LIST FATAL ACCIDENTS.

Consolidation Coal Company. Chas. Wagner, coal loader, killed by fall of slate on June 25, Mine No. 153.

Elkhorn-Piney Coal Mining Co. Lewis Null killed by fall of slate, September 7.

Royal Elkhorn Coal Company. Thomas Riley killed by slate fall, August 12.

The Cliff Coal Company. Willie George, single, age 23, on September 3, was sitting on side of loaded mine car on entry and leaned back or started to get up, striking shoulder or back against trolley wire. Lived only ten minutes.

Elkhorn-Star Coal Company. On June 30, Sam Baldrige killed by fall of slate.

Edgemont Fuel Company. On September 9, William Roy Cavens was cutting out hung shot in No. 5 room, first right entry, when kettle bottom fell, killing him instantly.

Stover-Elkhorn Coal Company. July 9, Burley Conley, age 17 years, single, was working No. 16 room, second north entry, pushing loaded car coal out of place. When near mouth of room a large piece of draw slate fell killing him instantly.

Williams Coal Company, Prestonsburg, Ky. November 11, Earl Stafford and John Fraley, working small wagon mine only in about 80 feet. Going into work they pushed a small car inside which contained several kegs powder. I was in Prestonsburg a few hours after this happened, and the best information I could get was that they were opening powder with hatchet which caused spark and set off powder. They both died on way to hospital. Caused by powder explosion.

Elkhorn Coal Corporation. Kennel Collins, age 22, single, working No. 2 room fifth left 331 Mine, was loading car coal when slate fell and caught him over side of car, breaking neck and killing him instantly. I visited this mine next morning after accident occurred and the assistant mine foreman told me that he told this fellow that his place was not safe to work in a short time before this happened.

Hon. Lawson Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky,

Dear Sir: I herewith submit my Annual Report for the year ending December 31, 1920.

I am well pleased to be able to truthfully report to you the miners and mine officials, as a rule, have vigilently co-operated with me to prevent accidents, and to have the law complied with. The events and results obtained during the past year justify me in especially commending them in this report for their prompt and ungrudging response to requests made of them to discontinue dangerous practices.

Very truly yours,

Grant Phillips.

Assistant Inspector 8th. District.

List of Mines visited by Hammond, Asst. Mine Inspector for the 8th District of Kentucky, year 1920.

McKINNEY STEEL CO., Greasy Creek Plant, C. & O. R. R.
Alka. Ky.

WINSON COAL CO., C. & O. R. R., Regina, Ky.

KEWANEE COAL CO., C. & O. R. R., Kewanee, Ky.

KEEL COAL CO., C. & O. R. R., Pikeville, Ky.

COAL RUN COAL CO., C. & O. R. R., Coal Run, Ky.

JAS. HATCHER COAL CO., C. & O. R. R., Big Shoal, Ky.

KEYSER COAL CO., C. & O. R. R. Keyser, Ky.

MOSSY BOTTOM MINING CO., C. & O. R. R., Mossy Bottom, Ky.

BAILEY COAL CO., Williamson Pond Crk. R. R., Toler, Ky.

BANNER POND CREEK COAL CO., Williamsen Pond Creek R. R., Toler, Ky.

BLACK DIAMOND COAL CO., Williamson Pond Creek R. R., Goody, Ky.

BLACK GEM COAL CO., Williamson Pond Creek R. R., Toler, Ky.

SOLVAY COLLIERIES CO., Williamson Pond Creek R. R., Orinoco, Ky.

These Mines Were Not Visited by Reason of the STRIKE.

CUB MOUNTAIN COAL CO., N. & W. R. R., Nolan, W. Va.

BORDERLAND COAL CO., N. & W. R. R., Borderland,
W. Va.

FALL BRANCH COAL CO., N. & W. R. R., Chattaroy,
W. Va.

BURNWELL COAL CO., N. & W. R. R., Burnwell, W. Va.

ALLBURN COAL CO., N. & W. R. R., McCarr, Ky.

P. M. C. COAL CO., N. & W. R. R., McCarr, Ky.

ALMA THACKER COAL CO., N. & W. R. R., McCarr, Ky.

FREEBURN COAL CO., N. & W. R. R., Edgarton, W. Va.

VULCAN COAL CO., N. & W. R. R., Vulcan, W. Va.

MAJESTIC COLLIERIES CO., N. & W. R. R., Majestic,
Ky.

UPPER ELK COAL CO., Argo, Ky.

The Upper Elk Coal Co. is on the Big Sandy and Cumberland Rail Road.

NEW MINES BEING OPENED.

THE WADE COAL CO., Williamson Pond Creek R. R.,
Williamson, W. Va.

PINSON ELKHORN COLLIERIES, C. & O. R. R., Millard,
Ky.

THE FORKS COAL CO., C. & O. R. R., Millard, Ky.

T. N. HUFFMAN COAL CO., Pikeville, Ky.

This mine is located at Pikeville, Ky. on the C. & O. R. R., Big Sandy Division. Working the Upper Elkhorn seam, coal is worked from the solid, is hauled by mules. I visited this mine together with Mr. Williams, Asst. Inspector of Mines on Sept. 9, 1920, and found the roof and drainage on the main line bad 150 feet in.

Frank Connolly, Superintendent; Sid Huffman, Mine Foreman.

STEELE COAL COMPANY, Mossy Bottom, Ky.

This mine is located at Mossy Bottom, Ky., on the C. & O. R. R., Big Sandy Division. Coal is hauled by motors. This

mine was visited by myself and U. D. Williams, September 25, 1920, and found in very fair condition. Upper Elkhorn seam is being worked, thickness 52 inches.

J. A. Gantz, Superintendent; B. B. Martin, Mine Foreman.

LOWER ELKHORN COAL COMPANY, Praise, Ky.

This mine is located on the C. C. & O. R. R. It is working the Lower Elkhorn seam. Coal is hauled by motors. Was visited September, 29, 1920. Found in fair condition. Changed hands and now being operated by the Kanawha Elkhorn Collieries Co., Praise, Ky.

PEERLESS ELKHORN COAL COMPANY, Praise, Ky.

This mine is located on the C. C. & O. R. R. working the Lower Elkhorn seam. Coal is hauled by mules. Visited September 30, 1920. Worked from the solid. Found in fair condition except main haulway 150 feet. Needs some draining and timbering, since it has been taken over by the Kanawha Elkhorn Collieries Co., Praise, Ky.

ELKHORN GAS COAL COMPANY, Praise, Ky.

Is located on the C. C. & O. R. R. Is working the Lower Elkhorn seam. Coal is hauled by mules. 50 inches coal. Visited October 1, 1920. Worked from the solid. Found in fair condition.

H. H. Canada, Superintendent; M. S. Sharp, Mine Foreman.

KANAWHA ELKHORN COLLIERIES CO., Praise, Ky.

BENTLEY MINE.

This mine is located on the C. C. & O. R. R. Visit was made October 1, 1920. Coal is worked from the solid, and hauled by mules. Found in fair condition. The Lower Elkhorn seam is being worked.

C. C. Simpkins, Superintendent; Geo. Bean, Mine Foreman.

PARAGON ELKHORN COLLIERIES CO., Dunleary, Ky.

This mine is on the C. & O. R. R. working the Upper Elkhorn

seam. Machine mined, and hauled by electric power. Found in good condition October 4, 1920.

G. B. Backley, Superintendent; Fred Stafford, Mine Foreman.

PRAISE ELKHORN MINING COMPANY, Dunleary, Ky.

This mine is located on the C. & O. R. R. of the Big Sandy Division. Machine mined, and hauled by mules. They are working the Lower Elkhorn seam, thickness 40 inches. I visited the mine October 5, 1920, and found it in fair condition.

T. R. Bell, Superintendent; C. G. Romans, Mine Foreman.

KENTUCKY ELKHORN COAL COMPANY, Praise, Ky.

This mine is located on the Big Sandy Division of the C. & O. R. R. The coal is hauled by electric motors. The Elswick seam is being worked. Made visit to this mine October 5, 1920, and found it in fair condition.

W. R. Todd, Superintendent and Mine Foreman.

**EDGEWATER COAL CO., "COALDALE PLANT" No. 1,
2, 3 & 4, Hellier, Ky.**

These mines are located on the Marrowbone Branch of the Big Sandy Division, C. & O. R. R. The coal is worked by machine and hauled by electric motors. I visited these mines October 7, 1920 and found them in good condition. Both Lower and Upper Elkhorn seams are being worked.

J. A. Strong, Superintendent; W. R. Bayes, Mine Foreman.

GREENO COAL COMPANY, 1 & 2, Hellier, Ky.

These mines are located on the Marrowbone Branch of the Big Sandy Division of the C. & O. R. R. The coal is machine worked and hauled by electric motors. I visited these mines October 8, 1920 and found them in fair condition. Both Lower and Upper Elkhorn seams are being worked.

Jas. Smith, Superintendent; J. F. Jones and Bassil Childress, Mine Foremen.

**MANUFACTURERS COAL AND COKE CO., Nos. 1 and 2,
Helier, Ky.**

These mines are located on the Marrowbone Branch of the Big Sandy Division of the C. & O. R. R. The coal is machine worked and is hauled by electric motors. I visited these mines October 8, 1920, and found them in good condition, the Upper and Lower Elkhorn seams being worked.

A. W. Miller, Superintendent; J. T. Smith and E. F. Childress, Mine Foremen.

**McKINNEY STEELE COMPANY, Wolf Pit Plant No. 1, Wolf
Pit, Ky.**

This mine is located on the Marrowbone Branch of the Big Sandy Division of the C. & O. R. R. This mine is working the Lower Elkhorn seam. The coal is worked by machine and hauled by electric motors. I visited this mine October 11, 1920, and found it in fair condition.

H. D. Pallister, Superintendent; John W. Stair, Mine Foreman.

**EDGEWATER COAL COMPANY, Lookout Plant Nos. 1 and
2, Lookout, Ky.**

These mines are located on the Marrowbone Branch of the Big Sandy Division of the C. & O. R. R. These mines are working the Upper and Lower Elkhorn seams, are worked from the solid and hauled by mules. I visited them October 12, 1920 and found them in fair condition.

R. D. Tate, Superintendent; L. H. Adams and Fred Adams, Mine Foremen.

**EDGEWATER COAL COMPANY, Henry Clay Plant, Nos. 1
& 2, Lookout, Ky.**

These mines are located on the Marrowbone Branch of the Big Sandy Division of the C. & O. R. R. These mines are working the Upper and Lower Elkhorn seams. The coal is machine worked and hauled by electric motor. I visited them October 13, 1920, and found them in good condition.

F. L. Long, Superintendent; R. H. Hickman and Wall Wiley, Mine Foremen.

EDGEWATER COAL COMPANY, Big Branch Plant, Nos. 1 & 2, Lookout, Ky.

These mines are located on the Marrowbone Branch of the Big Sandy Division of the C. & O. R. R. These mines are working the Upper and Lower Elkhorn seams. The coal is machine worked and hauled by electric motors. I visited them October 14, 1920, and found them in good condition.

F. L. Long, Superintendent; R. C. Bartley and Frank Ward, Mine Foremen.

MARROWBONE MINING CO., Lookout, Ky., Nos. 1 & 2.

These mines are located on the Marrowbone Branch of the Big Sandy Division of the C. & O. R. R. These mines are working the Upper and Lower Elkhorn seams. The coal is machine worked and hauled by electric motors. I visited them October 15, 1920, and found them in good condition.

C. D. Jacob, Superintendent; Boss Jones, Mine Foreman.

KENTUCKY ELKHORN BY-PRODUCTS COAL COMPANY, Dorton, Ky.

This mine is located on the S. V. & E. R. R. This mine is working the Upper Elkhorn seam. The coal is machine worked and hauled by electric motors. I visited this mine November 8, 1920, and found this mine in good condition.

H. L. Cox, Superintendent; R. Lewis, Mine Foreman.

KENTUCKY BLOCK FUEL COMPANY, Jonancy, Ky.

This mine is located on the S. V. & E. R. R. of the Big Sandy Division of the C. & O. R. R. This mine is working the Upper Elkhorn seam. The coal is machine worked and hauled by electric motors. I visited this mine November 8, 1920, and found the mine in good condition.

Chas. Wagner, Superintendent; B. F. Stiltner, Mine Foreman.

ROGERS ELKHORN COAL COMPANY, Virgie, Ky.

This mine is located on the S. V. & E. R. R. of the Big Sandy Division of the C. & O. R. R. This mine is working the Upper Elkhorn seam. The coal is machine worked and hauled by electric motors. I visited this mine November 9, 1920, and found the mine in fair condition.

T. E. Rogers, Superintendent; Frank Jones, Mine Foreman.

ELKHORN SHELBY CREEK COAL COMPANY, Esco, Ky.

This mine is located on the S. V. & E. R. R. of the Big Sandy Division of the C. & O. R. R. This mine is working the Upper Elkhorn seam. The coal is worked and hauled by electric motors. I visited this mine November 9, 1920, and found the mine in fair condition.

C. W. Connor, Superintendent; J. H. Bowling, Mine Foreman.

J. B. ELKHORN COAL COMPANY, Hildason, Ky.

This mine is located on the S. V. & E. R. R. of the Big Sandy Division of the C. & O. R. R. This mine is working the Upper Elkhorn seam. The coal is machine worked and hauled by electric motors. I visited this mine November 10, 1920, and found it in fair condition.

G. A. Clutts, Superintendent; Paul Mullins, Mine Foreman.

FORD ELKHORN MINING COMPANY, Robinson Creek, Ky.

Nos. 1 & 2.

These mines are located on the S. V. & E. R. R. of the Big Sandy Division of the C. & O. R. R. These mines are working the Upper and Lower Elkhorn seams. The coal is machine worked and hauled by electric motors. I visited these mines November 10, 1920, and found them in fair condition.

T. J. Phillips, Superintendent; Henry Bowling, Mine Foreman.

BUCKFIELD COAL COMPANY, Elkseam, Ky.

This mine is located on the S. V. & E. R. R. of the Big

Sandy Division of the C. & O. R. R. This mine is working the Lower Elkhorn seam. The coal is machine worked and hauled by mules. I visited this mine November 11, 1920, and found it in fair condition.

A. B. Brook, Superintendent; J. A. Clouse, Mine Foreman.

ELKHORN SEAM COAL COMPANY, Elkseam, Ky.

This mine is located on the S. V. & E. R. R. of the Big Sandy Division of the C. & O. R. R. This mine is working the Lower Elkhorn seam. The coal is machine worked and hauled by electric motor. I visited this mine November 12, 1920 and found the mine in fair condition.

D. P. Sanders, Superintendent; B. F. George, Mine Foreman.

I. D. SMITH COAL COMPANY, Williamson, W. Va.

This mine is located on the Kentucky side and is a wagon mine. The mine is working the Thacker seam. The coal is shot from the solid and hauled by mules. I visited this mine November 16, 1920, and found it in fair condition. This mine is in the strike zone, but not molested.

J. D. Smith, Superintendent; Elias Miller, Mine Foreman.

BISHOP AND HATFIELD, Williamson, W. Va.

This mine is located on the Kentucky side and is a wagon mine. This mine is working the Thacker seam. The coal is shot from the solid and hauled by mules. I visited this mine November 16, 1920, and found it in fair condition. This mine will be worked out within three months.

This mine is in the strike zone but not molested.

Wm. Gardner, Superintendent; Wm. Gardner, Mine Foreman.

THE WEBB COAL COMPANY, Goody, Ky.

This mine is located on the Kentucky side and on the Williamson & Pond Creek R. R. and working the Pond Creek seam. The coal is shot from the solid and hauled by mules. I visited this mine November 17, 1920, and found it in medium condition.

Ira Webb, Superintendent; Thurston Thacker, Mine Foreman.

GOODMAN AND WALTERS, Goody, Ky.

This mine is located on the Williamson and Pond Creek R. R., and working the Pond Creek seam. The coal is shot from the solid and hauled by mules, and is a wagon mine. I visited this mine November 17, 1920, condition fair.

Bob Gould, Mine Foreman.

TUG VALLEY FUEL COMPANY, Goody, Ky.

This mine is located on the Williamson & Pond Creek R. R. This mine is working the Thacker seam and is a wagon mine. The coal is shot from the solid and hauled by mules. I visited this mine November 18, 1920 and found it in fair condition.

French Blackburn, Superintendent; Robt. Gould, Mine Foreman.

POND CREEK BY-PRODUCT COAL COMPANY, Williamson, W. Va.

This mine is located on the Williamson & Pond Creek R. R. and is working the Thacker seam. This mine is machine worked and hauled by electric motor. I visited this mine November 18, 1920 and found it in fair condition.

W. A. Wilson, Superintendent; P. J. Doolan, Mine Foreman.

THE LECKIE COLLIERIES COMPANY, Aflex, Ky.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek and Thacker seams. This mine is machine worked and hauled by electric motor. I visited this mine November 19, 1920, and found it is good condition.

W. S. Leckie, Superintendent; E. F. Milam and Cecil Wilburn, Mine Foremen.

THE BLAKE COAL COMPANY, Stone, Ky.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is shot from the

solid and hauled by mules. I visited this mine November 22, 1920, and found same in fair condition.

H. H. Stallard, Superintendent; F. F. Hinkle, Mine Foreman.

TRIANGLE COAL COMPANY, Stone, Ky.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is shot from the solid and hauled by mules. I visited this mine November 22, 1920, and found same in good condition.

J. L. Crockett, Superintendent; J. E. Hufford, Mine Foreman.

THE SULLIVAN POND CREEK COAL CO., Stone, Ky.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is machine worked and hauled by electric motor. I visited this mine November 24, 1920, and found the same in fair condition.

Wayne Plyman, Superintendent; Wayne Plyman, Mine Foreman.

POND CREEK COAL COMPANY, Stone, Ky., No. 4.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is machine worked and hauled by electric motor. I visited this mine November 23, 1920, and found the same in fair condition.

W. A. Eads, Superintendent; W. E. Hudson, Mine Foreman.

POND CREEK COAL COMPANY, Stone, Ky., No. 8.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. The coal is machine mined and hauled by electric motor. I visited this mine November 23, 1920, and found same in good condition.

G. E. Shelor, Superintendent; H. S. Wentz, Mine Foreman.

MARIETTA COAL COMPANY, Pinson Fork, Ky., Nos. 1 & 2.

These mines are located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is shot from

the solid and hauled by motor. I visited these mines November 25, 1920, and found same in fair condition.

G. R. Williams, Superintendent; Walter Wroten, Mine Foreman.

POND CREEK COAL COMPANY, No. 5, Pinson Fork, Ky.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is machine worked and hauled by motor. I visited this mine November 25, 1920, and found same in good condition.

G. E. Shelor, Superintendent; H. L. Maxey, Mine Foreman.

POND CREEK COAL COMPANY, No. 7, McVeigh, Ky.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is machine worked and hauled by motor. I visited this mine November 26, 1920, and found same in good condition.

D. W. Hogan, Superintendent; H. B. Morgan, Mine Foreman.

POND CREEK COAL COMPANY, No. 6, McVeigh, Ky.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is machine worked and hauled by motor. I visited this mine November 27, 1920, and found same in good condition.

D. W. Hogan, Superintendent; H. K. Tilley, Mine Foreman.

TIERNEY MINING COMPANY, Nos. 1 & 2, Stone, Ky.

These mines are located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is machine worked and hauled by motor. I visited these mines November 29, 1920, and found same in good condition.

G. C. Wood, Superintendent; Geo. Foster, Mine Foreman.

POND CREEK COAL COMPANY, No. 3, Stone, Ky.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is machine worked

and hauled by motor. I visited this mine November 29, 1920, and found same in good condition.

G. E. Shelor, Superintendent; J. A. Helm, Mine Foreman.

SUDUTH FUEL COMPANY, Stone, Ky.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is machine worked and hauled by motor. I visited this mine November 30, 1920, and found same in good condition.

Earl Bassham, Superintendent and Mine Foreman.

MUDLICK COAL COMPANY, Sharondale, Ky.

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is shot from the solid and hauled by mules. I visited this mine December 1, 1920, and found the same in fair condition.

P. S. York, Superintendent; T. W. Palmer, Mine Foreman.

SHARON COAL AND COKE COMPANY, Sharondale, Ky

This mine is located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. This coal is machine worked and hauled by motor. I visited this mine December 1, 1920, and found same in fair condition.

E. M. Tourney, Superintendent; Geo. Dalton, Mine Foreman.

ORINOCO MINING COMPANY, 1, 2, & 3, Orinoco, Ky.

These mines are located on the Williamson & Pond Creek R. R. and working the Pond Creek seam. The coal is machine worked and hauled by motor. I visited these mines December 2, 1920, and found same in fair condition.

J. H. Wagner, Superintendent and Mine Foreman.

BIG HOLLOW COAL COMPANY, Pikeville, Ky.

This mine is located on the C. & O. Division and working the Upper Elkhorn seam. The coal is shot from the solid and hauled by mules. I visited this mine December 7, 1920, and found bad clearance and a heavy draw slate top; otherwise mine in fair condition.

Burgess Thompson, Superintendent; J. L. Allen, Mine Foreman.

A. J. YOUNCE COAL COMPANY, Pikeville, Ky.

This mine is located on the C. & O. Division and is a wagon mine. The coal is shot from the solid and hauled by mules. I visited this mine December 6, 1920, and found mine closed down indefinitely at this time. They are working the Upper Elkhorn seam.

A. J. Younce, Superintendent and Mine Foreman.

YOUNCE COLLIERIES COAL CO., Mossy Bottom, Ky.

This mine is located on the C. & O. Division. This mine is working the Upper and Lower Elkhorn seams, just opened up. The coal is shot from the solid and hauled by mules. I visited this mine December 8, 1920, and found same in fair condition.

A. J. Younce, Superintendent and Mine Foreman.

CHRISTIE-DARBY MINING COMPANY, Mossy Bottom, Ky.

This mine is located on the C. & O. Division. This mine is working the Upper and Lower Elkhorn seams. The coal is shot from the solid and hauled by mules. Closed down indefinitely. I visited this mine December 8, 1920.

D. W. Darby, Superintendent; J. T. Scott, Mine Foreman.

FUNK COAL COMPANY, Sutton, Ky.

This mine is located on the C. & O. Division. This mine is working the Upper Elkhorn seam and the coal is shot from the solid and hauled by mules. I visited this mine December 10, 1920, and found same in fair condition.

Jas. Thacker, Superintendent; Jas. Fife, Mine Foreman.

R. H. ELKHORN COAL COMPANY, Pikeville, Ky.

This mine is located on the S. V. & E. R. R. of the C. & O. Division. The coal is shot from the solid and hauled by mules. The mine is working the Upper Elkhorn seam. I

visited this mine December 13, 1920 and found same in fair condition.

J A. DaMarcas, Superintendent and Mine Foreman.

BIG SHELBY COAL COMPANY, Shelbiana, Ky.

This mine is located on the C. & O. R. R. of the Big Sandy Division. This mine is working the Upper Elkhorn seam and the coal is shot from the solid and hauled by mules. I visited this mine December 14, 1920, and found same in fair condition.

G. C. Lusk, Superintendent; Chas. Lusk, Mine Foreman.

KANAWHA ELKHORN COLLIERIES COMPANY,

Praise, Ky.

This mine is located on the C. C. & O. R. R. and is working the Auxier seam. The coal is machine worked and hauled by motor. I visited this mine December 17, 1920, and found same in fair condition.

R. C. Simpkins, Superintendent; C. E. McDowel, Mine Foreman.

T. N. HUFFMAN COAL COMPANY, Pikeville, Ky.

This mine is located at Pikeville, Ky. on the C. & O. R. R. Big Sandy Division. Working the Upper Elkhorn seam. Coal is worked from the solid and hauled by mules. I visited this mine together with Mr. Williams, Asst. Inspector of Mines, on September 9, 1920, and found the roof and drainage on the main line bad 150 feet in.

Frank Connolly, Superintendent; Sid Huffman, Mine Foreman.

EXPLANATION.

District No. 3. Lexington, Kentucky.

This District did not have an Assistant Inspector in it for the full year and therefore there was no Annual Report made.

District No. 6. Hazard, Kentucky.

This District did not have an Assistant Inspector for the full year and therefore there was no Annual Report made.

EXAMINATION FOR ASSISTANT STATE MINE INSPECTOR

1. What experience have you had in a gaseous mine? State in detail where, how long, name company and state.
2. (a) How would you proceed to examine a mine and its equipment?
(b) Where would you begin?
3. (a) Should all gaseous mines be equipped with recording water gauges and dated each day? (b) What information would this give the Inspector between inspections?
4. In a gaseous mine where fans are running continuously night and day and sometimes set off from the power house some distance, should they be attended by an engineer in case of accident to fan?
5. What danger is there to a mine where fan and motor are housed in wooden building with a rheostat bolted to building?
6. How often should working shaft and second openings, cages, rope, dogs, safety gates be examined?
7. (a) Where are the two weakest points of the hoisting rope?
(b) Should the cage chains be annealed? (c) How often?
8. What effect on the water gauge is there, if air is first split one mile in, or immediately at the shaft bottom?
9. Give a rule for barrier or shaft bottom pillars under any depth and conditions.
10. What material should stoppings be built out of in gaseous mines?
11. Make a sketch and show by arrows and overcasts of a four entry system, also three entry system, assuming butt or side entries turned off these entries, also show regulators.
12. Show the advantage or disadvantage of a four entry system over a three entry system in a gaseous mine.
13. Would you construe second opening to mean from face, or just opening outside?
14. What advantage is a barrier pillar between property lines?
15. There have been several gas and oil wells sunk in and around coal bearing properties in Kentucky, without any data. What is your opinion—are they dangerous pertaining to a new development in these fields under the above conditions?
16. "Sketch" shows a fire in a mine. Show your method in handling same.
17. We read in books certain methods how to fight mine fires. Would you apply the rule under all conditions? State why.
18. What are the duties of Assistant State Mine Inspector?
19. What are the legal requirements relative to ventilation of coal mines generating explosive gases? What means are necessary to properly conduct the air current to face of the workings?
20. A shaft is very wet and operated by electricity, where should the electric wires be hung and what precaution should be taken to eliminate electrifying the shaft?
21. The air measurement at bottom of intake shaft showed a reading of 125,000 with a temperature of 40 degrees F. At the outlet the

- anemometer read 153,000 and the temperature was 70 degrees F. What amount of gas given off in the mine?
22. In examining a gaseous mine or a non-gaseous mine, what observations would lead you to believe they had been examined by the fire boss or mine foreman?
 23. When would you recommend a split in a mine that had continuous current?
 24. When is the limit of splitting reached?
 25. How many tons of coal are there in a property of 1000 acres 4 ft. thick with a specific gravity of 1.27, coal weighing 80 lbs. per cu. ft.?
 26. A mine is laid off in panels of 300 ft. by 2000 ft. coal 4 ft. thick with 2 ft. of draw slate taken down in entries at \$2.00 per yd. What is the cost per ton yard per entry work?
 27. State method of timbering rooms with hard top and soft bottom.
(a) Draw slate with cleatage right angles to face. (b) Cleatage with face.
 28. What effect has standing water or poor drainage on entry stumps and chain pillars?
 29. What in your opinion is the best method of humidifying a mine?
 30. Would salt and calcium chloride distributed in gobs and old workings of a dry and dusty mine have an effect in eliminating an explosion?
 31. (a) What effect has a high velocity on a mine? (b) What is the highest velocity you consider safe?
 32. (a) If gas is found in any quantity in a mine, would you consider it safe to use lights? (b) Would you consider mixed lights?
 33. What gases are found in coal mines of Kentucky? Give their symbols—specific gravity—atomic weight—weight per cu. ft. and characters.
 34. State your opinion as to the probable cause of mine explosions.
 35. Is it necessary to make examinations for gas, either explosive or non-explosive, in abandoned workings? State how often.
 36. What is a safety lamp? When is it safe? What precautions should be taken in the use of safety lamps in gaseous mines?
 37. What influence does coal dust have on mine explosions? Where coal is shot from the solid in mines generating C. H. 4 what precautions would you advise?
 38. A fan was bought for a capacity of 200,000 cu. ft. of air with a 2-inch water gauge running 250 R. P. M., the fan set 25 ft. at right angles to drift with explosive doors looking outside, the orifice of mine was larger than orifice of fan. What would you say was wrong if the fan only produced 90,000 cu. ft.?
 39. What method have you to determine a fire is out after sealing it up?

40. What precaution would you take when a certain section of a mine shows gas C. H. 4 and dangerous when balance of mine is O. K. and under separate split?
41. What effect has barometric changes on mines generating explosive gases?
42. What danger arises in cleaning out gas from one district through another district when the mine is operating?
43. How would you open up an old and abandoned working that had been sealed off?
44. When would you class a mine gaseous?
45. Should miners be allowed self lighting safety lamps, or should they be lit at a station?
46. What is your best method of organizing for recovery or rescue after an explosion?
47. What do you know relative to first aid?
48. A pump has a stroke of 12 inches and is 7 inches in diameter working 60 strokes per minute, with 100 lb. steam pressure. What number of gallons of water per hour will it discharge?
49. What is the pressure per sq. inch at sea level?
50. If mercury is 13.6 times heavier than air at sea level how far from water can you set a pump?
51. State under what conditions solid shooting should be allowed?

EXAMINATION QUESTIONS FOR MINE FOREMAN.

Ventilation.

1. What is ventilation? Why is ventilation of a mine necessary?
2. Is it safe to pass a current of intake air through the abandoned portion of the mine, and then conduct it to the faces of the workings? If not, why not?
3. What are the requirements of the law regarding old workings in abandoned parts of the mine? State what the law requires in regard to mine maps, also the second openings.
4. What are the necessary supplies that should always be on hand at the mine for the safe working of the same, and what is your duty in the case when these supplies are not on hand?
5. Describe the use of the following instruments in connection with a coal mine: Anemometer, thermometer, barometer and water gauge.
6. What would be the minimum amount of air required in a split in which 60 persons were employed? (b) How would you determine the quantity of air passing, the airway being 8 ft. wide by 5 ft. high; where would you take air measurements, and how and when would you enter them in the daily report book?
7. Explain how air is put in motion in mining?
8. Explain what is meant by natural ventilation and how it is produced.
9. Explain how natural ventilation in a mine is affected by the change of seasons.
10. How is furnace ventilation produced in mine?

11. Explain the principle of action of the two common types of mine ventilating fans?
12. What are the chief factors necessary to secure efficient ventilation in mines?
13. What method would you adopt to have continuous flow of air past the face of each working place?
14. Is ventilation more easily accomplished in long wall mining than in room-and-pillar work, and why?
15. How should the crosscuts in rooms be arranged to assist ventilation?
16. What arrangements are necessary in order to maintain a good current of air throughout the entire workings of a mine?
17. What are the general requirements in regard to the distribution of air in mines and what must be done when the current is seriously interrupted?
18. Is the ventilation of a mine improved simply by increasing the velocity of the air current?
19. Describe what system of ventilation and general management you would adopt in a gaseous mine in order to keep the mine in safe condition, both as to explosion and other causes.
20. How should a stable in a mine be constructed and ventilated?
21. What instruments are used to properly determine the condition, volume and temperature of the air current in a mine? State fully the principle and application of each.
22. Describe how the velocity of an air current in a mine, is correctly measured with an anemometer.
23. At what points in the mine should air measurements be taken regularly?
24. What is meant by the expressions "atmospheric pressure," "barometric pressure," "sea-level pressure?"
25. Explain briefly the cause of atmospheric pressure and how it is different in different places at different times.
26. What is meant by absolute pressure?
27. (a) What is meant by ventilating pressure in mine ventilation?
(b) What is the unit of ventilating pressure?
28. Explain the difference between ventilating pressure and absolute pressure.
29. An airway 16.7 ft. wide, 8.9 ft. high, is passing 65,000 cu. ft. of air per min.; what is the velocity of the air current?
30. If powder smoke requires 2 min. and 17 sec. to travel 149 yds. in an airway 10x12 ft., what quantity of air is passing in the airway?
31. In an airway 6x7 ft. the anemometer registers 75 ft. per min.; what quantity of air is passing in the airway?
32. What should be the volume of air for a mine producing 1000 tons of coal per day, and what would be the effective horsepower of the ventilator, with a 1-in. water gauge?
33. An airway 8x9 ft. is passing 45,000 cu. ft. of air per minute; what is the velocity of the air current?

34. If the velocity of an air current is 725 ft. per minute in an airway $6\frac{1}{2} \times 8\frac{1}{2}$ ft., what is the quantity of air passing per minute?
35. Find the ventilating pressure in a mine when the downcast temperature is 60 deg. F. and the upcast 200 deg. F., the barometer being 30 in.; the depth of both shafts is 300 ft.
36. What causes the resistance that a mine or airway offers to the passage of an air current?
37. Upon what does the resistance of a mine or airway depend? How does the resistance of a mine or airway vary?
38. Find the mine resistance when the water gauge reads 2.5 in. in an airway 6×10 ft. in cross-section.
39. What pressure and water gauge will be required to pass 60,000 cu. ft. of air per minute through an airway 8×10 ft., 4,000 ft. long?

Miscellaneous.

1. With a pressure at sea level of 14.7 lbs. per sq. inch and barometer 30 inches, how far can you set a pump from water "vertical" and not use rods?
2. (a) State best method of timbering in bad roof with cleatage right angles to face. (b) Roof with slabby draw slate. (c) Hard top—soft bottom.
3. What precaution would you take in drawing heading stumps in a 3-foot seam where 30 inches have been shot down for heading height?
4. Give the law for thickness of pillars for any condition; roof.
5. Butt entries are turned off a main right and left every 300 ft. in a 4 ft. seam and 2 ft. of roof taken down at \$2.00 per yd., what is the cost per ton yard for these entries if panel is 2,000 ft. long?
6. (a) What are the qualifications of a mine foreman? (b) What are his duties, as per Kentucky Mining Law? (c) What does the law say in respect to Mine Foreman's certificate for violation of the law on page 53, section 3?
7. (a) In your opinion is black powder dangerous in solid shooting? (b) Is permissible powder safer than black powder in solid shooting? (c) Under what condition should solid shooting be allowed?
8. What is your best method of humidifying a dusty mine?
9. Would salt or calcium chloride be a benefit to dusty gobs and roadways and even at face.
10. After covering all the mining laws of Kentucky in your duties as a Mine Foreman and the questions previously given in this examination what other duties would you apply?
11. "Sketch" shows a fire in a mine; show your method in handling same.

QUESTIONS FOR FIRE BOSS

1. What are the legal qualifications of a fire boss in Kentucky? What other qualifications besides those defined by law should he possess? What are the duties of a fire boss as required by law? Answer fully.

2. What experience have you had in mines generating explosive gas? State in detail the character of such experience, the length of time employed, in what capacities, and in what mines.
3. What would determine whether or not any particular part of the mine should be examined for gas? How would you conduct your examination of a gaseous mine to ascertain its true condition? What evidence would there be to show that you had made a thorough examination?
4. What are the legal requirements relative to ventilation of coal mines generating explosive gas? What means are necessary to properly conduct the air current to the faces of the workings?
5. State fully your opinion of the principal causes of explosions in the coal mines in this state, and give in detail what method you would recommend for their prevention?
6. Is it necessary to make regular examinations for gas in abandoned workings? How often is it necessary to examine the worked out rooms on a working entry that are known to generate explosive gas?
7. What gases are found in the coal mines of Kentucky? Give their symbols, specific gravities, state where they are found and their effect on life and health. What method would you adopt to remove them to keep the mine in a safe and healthy condition?
8. Under what circumstances may a body of gas fail to be removed after restoring the ventilation? Under what condition would you recommend the use of safety lamps in a mine liberating explosive gas? Are you in favor of mixed lights in mines of this character?
9. If a serious gas explosion should occur in the mine, where a large air volume is being produced by fan, what would be the possible cause of such explosion? What precaution would you adopt to prevent it?
10. What is a safety lamp? When is it safe? What precautions should be taken in the use of safety lamps in gaseous mines?
11. What influence does coal dust exercise on mine explosions? Where coal is being blasted off the solid, the mine being very dusty and liberating explosive gas, what precautions would you advise to reduce the liability of an explosion?
12. Describe how the different mine gases may be detected? In what proportion in the air do they constitute a dangerous condition?
13. Upon reaching a mine for duty, what is your first duty?
14. A fan at a shaft mine under ordinary conditions shows a water gauge of 1 inch, but on this particular morning you found the water gauge showing 2 inches, how would you proceed to examine the mine? What would be the cause of this increase of water gauge?
15. If upon your examination of the mine in a continuous current you found gas in a certain section, what would you do?

16. (a) If gas is found in any quantity in a mine, would you consider it safe to use open lights? (b) Would you consider mixed lights safe?
17. A fan was bought for a capacity of 200,000 cu. ft. of air with a 2-inch water gauge running 250 r. p. m. The fan being set 25 ft. at right angles to drift with explosive doors looking outside, and a double entry intake, which was larger than orifice of fan, what would you say was wrong if the fan only produced 90,000 cu. ft. of air?
18. Upon your examination you found a fire, "see sketch." (a) What would be your first duty? (b) What method would you take to handle same?
19. (a) How would you determine fire was out? (b) How would you proceed to re-open after fire was out?
20. What causes mine fires?
21. (a) Should all abandoned places be examined? (b) Should they be ventilated?
22. What precaution would you take when a certain section of a mine shows gas C. H. 4, and dangerous, and balance of mine is O. K. This particular section under separate split?
23. What extra precaution should be taken where a mine generates gas C. H. 4 in large quantities and canvas brattices are used in all places where roof is bad, between the time of examination and the mine starts work. assuming it is one of the first places you have examined?
24. (a) What is the weight of a cubic foot of air?
(b) What is the weight of a cubic foot of C. H. 4?
(c) What is the weight of a cubic foot of C. O. 2?
Temperature 60 F., barometer 30 inches.
25. What effect would barometric changes have on mines generating explosive gases?
26. What is C. O.? What effect on life has it?
27. What is C. O. 2? What effect on life has it?
28. In making your examinations each morning, what other things should a mine examiner or fire boss observe essential, besides examining for gas?
29. What dangers arise in cleaning out gas from one district through another district when the mine is working?
30. A split has 60 men in it, what quantity of air is required as per law?
31. What material should stoppings be built out of in gaseous mines?
32. A mine is dusty and gaseous; what extra precaution should be taken in mine of this character?
33. What precaution would you take in entering old workings that had been sealed off?
34. What would be the first law to resuscitate a man who had been overcome by after damp?

35. A large mine generates gas in one section only. Should all the mine be examined for gas?
36. With a one-inch water gauge, we have 100,000 cubic ft. of air produced, what will be the quantity if we have a two-inch water gauge?
37. We have with a 1-inch water gauge 100,000 cu. ft. of air produced, what will be the quantity with a 2-inch water gauge?

**NAMES OF MEN WHO SUCCESSFULLY PASSED EXAMINATIONS
DURING MY ADMINISTRATION BEGINNING JUNE 1920.**

Received Certificates as follows:

	First Class	Second Class	Third Class
Brophy, Joseph F. -----		1	
Bailey, Ben T. -----		1	
Brown, M. B. -----		1	
Bingham, Clabe -----		1	
Brown, Joseph S. -----		1	
Burgess, Autie C. -----		1	
Brown, Everet Frazier -----		1	
Crick, James William -----	1		
Clark, Julius Robert -----		1	
Childers, George -----		1	
Corkeny, William -----		1	
Carpenter, Frank -----		1	
Cross, Walter N. -----	1		
Dozier, Andrew -----		1	
Dunn, Elmer -----		1	
Elliott, J. J. -----		1	
Freeman, Chas. T., -----		1	
Franklin, Anderson -----	1		
Gandy, Lester Done -----	1		
Gatlin, Henry -----	1		
Gray, Horace Williams -----		1	
Gill, E. R. -----		1	
Goodman, James T. -----		1	
Hill, Thomas -----			1
Hopkins, R. T. -----		1	
Irvine, James F. -----		1	
Jackson, Ernest Patton -----		1	
Johnson, Chas. Balford -----		1	
King James R. -----	1		
Lanhorn, Jerry -----			1
Lauson, William N. -----		1	
Lassiter, Everett A. -----		1	
Laferty, J. B. -----		1	
Larrison, William -----	1		
Moore, John Harris -----	1		

	First Class	Second Class	Third Class
Milem, E. F. -----		1	
Morris, O. C. -----		1	
Munrey, Ely -----			1
Owens, Chas. -----		1	
Pack, Barnet T. -----		1	
Phillips, Grant -----	1		
Smith, Gruley -----			1
Swanee, J. N. -----		1	
Stephens, Riley -----		1	
Sparks, James -----		1	
Stewart, James M. -----	1		
Thompson, James T. -----		1	
Troxill, Chas. Willis -----		1	
Veach, Robert -----		1	
Verner, W. D. -----		1	
Whitaker, W. A. -----	1		
Whetter, Robert E. -----		1	
Whittaker, Wm. Anderson -----		1	
White, A. T. -----		1	
Waters, Lewis -----		1	
Adkins, J. W. -----		1	
Amburgy, Carlos -----		1	
Abbott, James -----		1	
Bullock, Ostel -----	1		
Brackett, Andy -----		1	
Bray, Wm. Porter -----		1	
Branham, John -----		1	
Benfey, John -----		1	
Browning, Richard -----		1	
Byrge, S. E. -----	1		
Byrd, William T. -----		1	
Bain, Denver -----			1
Bell, Chas. -----		1	
Baker, V. N. -----		1	
Bradfute, John A. -----	1		
Cooper, Mathew -----		1	
Callagay, Paul -----	1		
Caldwell, John H. -----		1	
Campbell, Dave -----		1	
Collett, R. D. -----	1		
Dyer, F. C. -----	1		
Durham, C. W. -----		1	
Duncan, J. R. -----		1	
Tye, Speed -----		1	
Duglass, M. H. -----		1	

	First Class	Second Class	Third Class
Dills, Noah B. -----		1	
Danial, H. C. -----		1	
Edwards, W. J. -----	1		
Engle, J. M. -----		1	
Earley, John -----		1	
Earl, William -----		1	
Ferguson, Ambrose T. -----		1	
Fraley, Chas. Henry -----		1	
Fraley, J. B. -----		1	
Griffith, Luther -----	1		
George, B. F. -----		1	
Goodaker, Volney -----		1	
Harris, W. A. -----		1	
Henry, Herman -----		1	
Holbrooks, Hobert -----		1	
Holbrent, Dan. J. -----		1	
Herald, Ballard -----		1	
Hall, Will -----		1	
Horton, Claud -----		1	
Huffman, W. D. -----		1	
Honey, Zach -----		1	
Heady, Frank -----		1	
Hunt, W. H. -----	1		
Jobe, Lee O. -----	1		
Jones, J. W. -----	1		
Johnson, Stumber -----		1	
Jackson, Faieish -----		1	
Jerry, Charles -----		1	
Jones, Albert -----	1		
Kimball, Tom -----	1		
Kimble, G. E. -----		1	
Lowe, Ballard -----		1	
Birt, Leiffer -----		1	
Lewis, Martin -----		1	
Lusk, Charles -----		1	
	First	Second	Inspector
Laffoon, O. -----		1	
Lint, W. R. -----	1		
Lewis, Joseph, A. -----			1
More, Matt -----		1	
Millard S. -----		1	
Manning, Albert Amos -----		1	
McCarty, C. W. -----		1	
Oakley, A. E. -----		1	

	First	Second	Inspector
Pardu, W. L. -----	1		
Peace, O. F. -----		1	
Phamp, James Louis -----	1		
Price, C. C. -----		1	
Payton, J. M. -----		1	
Phillips, Grant -----			1
Robinson, D. C. -----		1	
Koeder, J. W. -----		1	
Rider, James A. -----	1		
Rourke, John E. -----		1	
Roll, R. M. -----	1		
Reed, H. F. -----	1		
Stamey, I. L. -----		1	
Saxton, Sam -----		1	
Stinnith, Frank -----	1		
Sizemore, John -----		1	
Smith, Frank P. -----		1	
Sizemore, Farmer -----	1		
Thompson, Lewis -----		1	
Turnnyre, L. G. -----		1	
Tirey, Jesse -----		1	
Tombison, Charles -----		1	
Venerable, G. R. -----	1		
Vaughn, Evert -----		1	
Woodall, Matt -----		1	
Waple, J. H. -----		1	
Warland, John -----		1	
Wells, M. L. -----			1
Young, C. Louise -----	1		
York, R. S. -----		1	
Yonce, C. L. -----	1		

Inspectors January 1, 1920.

Chief.

C. J. Norwood, Lexington. Appointed for four years (under new law) in June, 1918. Resigned voluntarily in December, 1919, but held on by request until June 15, 1920.

Assistants.

1st District—J. H. Salmon, Madisonville. Appointed November 13, 1919, to fill out unexpired term of T. E. Davis (appointed for 4 years in June, 1918) who had voluntarily resigned July 10, 1919. Mr. Salmon voluntarily resigned June 15, 1920.

2nd District—C. W. Wells, Central City. Appointed for 4 years in June, 1918. Voluntarily resigned February 15, 1920.

3rd District—F. C. Horton, Fleming (office Lexington). Appointed for 4 years in June, 1918. Voluntarily resigned June 15, 1920.

- 4th District—H. J. Fallon, Owensboro. Appointed November 15, 1919, to fill out unexpired term of J. D. Cain, (appointed for 4 years in June, 1918), who had voluntarily resigned November 15, 1919. Mr. Fallon resigned by request in June or July, 1920.
- 5th District—C. W. Arnold, Harlan. Appointed for 4 years in June, 1918. Voluntarily resigned March 15, 1920.
- 6th District—W. H. Noel, Hazard. Appointed November 13, 1919, to fill out unexpired term of L. W. Carter (appointed for 4 years in June, 1918), who had resigned in September, 1919. Mr. Noel resigned by request in June or July, 1920.
- 7th District—G. C. Wells, Paintsville. Appointed for 4 years in June, 1918. Voluntarily resigned in June, 1920.
- 8th District—J. F. Brown, Ashland. Appointed for 4 years in June, 1918. Resigned by request in June, 1920.

Men Who Received Mine Foreman Certificates

January to July, 1920.

February Meeting—Board: Inspectors, C. J. Norwood, J. F. Brown, F. C. Horton; miner member, H. F. Reed; operator member not present.

First Class Certificates.

No. of Certif.	(All P. O.s in Kentucky unless otherwise noted.)	Grade
264A	Rennie V. Clark, McRoberts -----	81.92
265A	J. R. Fritts, Evarts -----	90.86
266A	James R. Kellum, Packard -----	82.60
267A	Joseph A. Lewis, Lynch Mines -----	82.37
268A	George Symons, David -----	85.95
269A	J. W. Watson, Lynch Mines -----	85.16
270A	N. J. Wilburn, Nortonville -----	88.11

Second Class Certificates.

889B	Jas. W. Alley, Jr., Prestonsburg -----	75.23
890B	E. J. Ashbury, Dizney -----	91.54
891B	Lee Belcher, Dorton -----	83.63
892B	Will Belcher, Nortonville -----	78.82
893B	Maurice Blevins, Viva -----	80.29
894B	Robert J. Breckinridge, Wayland -----	93.84
895B	James H. Brooks, Borderland, W. Va., works in Ky. -----	81.64
896B	Luther Campbell, Fusonia -----	85.82
897B	E. M. Chapman, Jenkins, (tried for a first, fell below grade; regraded for second) -----	75.94
898B	Fred Chavies, Himyar -----	85.04
899B	Edward Cockburn, Whitesburg -----	94.17
900B	A. G. Combs, Pikeville -----	88.23
901B	J. W. Crick, Central City -----	76.44
902B	Mack Dowell, Uniontown, (tried for first, fell be- low grade; regraded for second) -----	75.74
903B	M. Elmore, Middlesboro -----	85.35

No. of Certif.	(All P. O.'s in Kentucky unless otherwise noted.)	Grade
904B	C. T. Graham, Providence	82.16
905B	Jacob Grow, Borderland, W. Va., works in Ky.	78.10
906B	Philip Harkness, Straight Creek	82.89
907B	Robert Harkness, Straight Creek	91.12
908B	O. M. Harlow, Fleming	83.94
909B	Philip Healy, Hardburly	85.57
910B	M. D. Hefin, McHenry	76.22
911B	Theodore Hopson, Prestonsburg	81.97
912B	Was for W. H. Jackson, but he sent no affidavit, hence no certificate was issued and he has not been authorized to serve as Foreman.	
913B	Will Janney, Lookout	90.07
914B	Roe Layne, Prestonsburg	91.63
915B	S. H. Ledbetter, Providence	86.65
916B	Enoch May, Altro	80.08
917B	Z. T. McCartt, Worley	78.36
918B	Clyde McConnell, Jenkins	83.82
919B	Ellis V. McCormick, Providence	85.83
920B	Chas. E. Montgomery, Wayland	91.32
921B	Grover C. New, Hatfield, W. Va., works in Ky.	76.35
922B	Henry Nunn, Staub	97.80
923B	John T. Phipps, Fusonia	76.07
924B	A. J. Pruitt, Ralston	82.16
925B	E. J. Salyers, Fleming	93.10
926B	W. M. Silvers, Evarts	75.00
927B	John Sturgill, Lackey	88.45
928B	R. B. Taylor, Morganfield	82.28
929B	Marion Thacker, Pikeville	81.17
930B	Robert B. Trosper, Logmont	93.80
931B	James H. Wagner, Orinoco	87.20
932B	Frank Ward, Lookout	93.86
933B	J. H. Ward, Wolfpit	77.31
934B	C. W. Wells, Deaneffield	85.00
935B	John West, Dunham	84.08
936B	L. K. Williams, Anchor	78.27
937B	Was for U. D. Williams, Lackey, but did not send affidavit required by law, hence no certi- ficate was issued and he is not authorized to serve as foreman.	
938B	P. B. Hodges, Benham	76.46
Third Class Certificates.		
90C	John Benjey, Wolfpit	67.83
91C	George Childers, Hombre	73.31
92C	P. A. Siler, Pruden, Tenn., works in Ky.	70.51

Failed to Pass.

Louis S. Waters, Comargo. Made a grade of only 48.99.

May Meeting—Board, May 31 to June 14: Inspectors, C. J. Norwood, J. H. Salmon, W. H. Noel; miner member, H. F. Reed.

First Class Certificates.

No. of Certif.	(All P. O.'s in Kentucky unless otherwise noted.)	Grade
271A	John H. Ashley, Morton's Gap	87.35
272A	Herman Brack, Yeager	95.02
273A	Arch Brinson, Providence	89.59
274A	John Bryan, Red Ash	91.60
275A	William T. Burke, Benham	81.51
276A	W. B. Burton, Kentenia	78.60
277A	J. F. Caudill, Dunham	93.40
278A	G. C. Clark, Straight Creek	84.52
279A	D. L. Davies, Barbourville	88.50
280A	J. W. Galbreath, Bonnyman	88.05
281A	H. B. Henton, St. Charles	85.35
282A	Jesse W. Ivester, Beattyville	81.88
283A	Frank Lankford, Harlan	84.30
284A	Barney L. Martin, Providence	94.75
285A	W. O. Morris, Nortonville	86.65
286A	Jeff T. Murphy, Kitts	86.75
287A	C. L. Murray, Lynch Mines	79.40
288A	Grainger Simpson, Central City	88.97
289A	James W. Vinson, Lexington	94.35
290A	Charles L. Walls, Bonnyman	89.93

Second Class.

939B	Fred Adams, Lookout	78.53
940B	T. C. Adams, Blackey	89.62
941B	Alex Anderson, Lennut	75.90
942B	W. T. Angel, Elcomb	80.55
943B	R. G. Bailey, Williamson, W. Va., works in Ky.	92.20
944B	John F. Baker, Manchester	80.40
945B	Hampton Ball, Ages	91.76
946B	W. M. Bartley, Hellier	82.75
947B	J. R. Basham, Seco	79.55
948B	Bradley Begley, Domino	84.40
949B	J. W. Booze, White Star	95.40
950B	L. A. Bowes, Kermit, W. Va., works in Ky.	84.49
951B	H. L. Brock, Wallsend, (tried for first, fell below grade; regraded for second)	85.30
952B	William Brock, Wilton	80.15
953B	Harvey Bryant, Staub	89.79
954B	George L. Carter, Yerkes	75.24
955B	Henry D. Chapman, Centertown	91.84
956B	E. A. Childress, Gatliff	82.41

No. of Certif.	(All P. O.'s in Kentucky unless otherwise noted.)	Grade
957B	F. H. Cooley, Hueysville -----	79.12
958B	Frank Cunningham, Auxier -----	78.70
959B	Ben Curnutte, Lackey -----	75.70
960B	Sam C. Davenport, Gatliff -----	75.30
961B	Fayette Daniel, Logmont -----	80.35
962B	T. S. Davis, Paint Cliff -----	84.00
963B	S. C. Davis, Providence -----	93.45
964B	Daniel R. Douglas, Elcomb -----	85.85
965B	William E. Elias, Gatliff -----	85.50
966B	W. G. Fain, Ages -----	77.90
967B	I. N. Fletcher, Fourmile -----	80.70
968B	Lonnie M. Fox, Isley -----	86.40
969B	R. D. Gill, Garrett -----	76.75
970B	W. B. Goldsmith, Seco -----	81.67
971B	J. R. Gooch, Greenville, R. F. D. No. 1 -----	96.03
972B	Ben Hart, Calloway -----	81.11
973B	James K. Hatmaker, Chevrolet -----	91.60
974B	J. E. Head, Lejunior -----	80.85
975B	George Henson, Cargo -----	79.30
976B	Charles Hensley, Benham -----	80.60
977B	Charles Hembree, Wallins Creek -----	83.80
978B	Joe S. Hill, Gatliff -----	80.50
979B	R. H. Hickman, Hellier -----	79.20
980B	C. F. Janeway, Middlesboro -----	79.10
981B	Creed Johnson, Stone -----	75.40
982B	Matt Jones, Chavies -----	90.70
983B	R. D. Jones, Viva -----	83.15
984B	Lawrence G. Kuhn, Hazard -----	90.15
985B	J. A. Knox, Pineville -----	85.15
986B	Monroe Lee, McHenry -----	93.90
987B	Robie Lewis, Lookout -----	77.55
988B	David Y. Lyttle, Hazard -----	85.17
989B	Edward S. McGuffey, Stearns -----	77.62
990B	W. H. Marsee, Hosman -----	85.30
991B	Fred Monroe, Providence -----	95.62
992B	J. C. Mullins, Logmont -----	75.60
993B	James C. Nance, Bonnyman -----	90.50
994B	Roland Neal, Dunham -----	89.65
995B	Tilden T. Nelson, Wilton -----	75.92
996B	S. C. Parker, Hosman -----	88.50
997B	R. C. Pickett, Lothair -----	82.25
998B	Archie D. Pollock, Graham -----	89.70
999B	Lester Potter, Gatliff -----	80.00
1000B	W. H. Potter, Gatliff -----	90.35
1001B	Fred Powers, Gatliff -----	78.93
1002B	Newell K. Pratt, Hellier -----	97.87

No. of Certif.	(All P. O.'s in Kentucky unless otherwise noted.)	Grade
1003B	James H. Price, Lennut -----	85.92
1004B	Oda D. Raley, Bevier -----	84.55
1005B	John P. Reaves, Gatliff -----	85.33
1006B	John W. Richards, Ralston -----	82.65
1007B	Fred Runyan, Sharondale -----	90.10
1008B	Charles H. Scott, Hellier -----	96.50
1009B	Frank Sellars, Hazard -----	83.45
1010B	W. J. Sevier, Gray -----	82.85
1011B	Shade Sexton, Jack Horn -----	77.40
1012B	Marion Sharp, Davisburg -----	76.69
1013B	Joe Smith, Chavies -----	81.75
1014B	Mike Smith, Lynch Mines, (tried for first, fell be- low grade; regraded for second) -----	80.12
1015B	George Sparks, McVeigh -----	84.25
1016B	Robert Spears, Mercer -----	76.95
1017B	Jasper Stacy, Hazard -----	88.50
1018B	Henry Stines, Red Ash -----	78.20
1019B	H. C. Stulting, Hitchins -----	93.15
1020B	James G. Thomas, Sprigg, W. Va., works in Ky., (tried for first, fell below grade; regraded for second) -----	75.72
1021B	S. C. Trammel, Peevee -----	90.65
1022B	Joe Turner, Shamrock -----	75.85
1023B	R. J. Turner, Middlesboro -----	80.66
1024B	Fred Tye, Gatliff -----	81.60
1025B	O. H. Walker, McVeigh -----	79.55
1026B	William A. Wagner, White Star -----	87.85
1027B	Elmer Walker, Tribbey -----	77.29
1028B	Ed Wells, Boons Camp -----	79.75
1029B	Fred Williams, White House -----	83.75
1030B	Edward C. Whitfield, Kitts -----	82.95
1031B	James T. Wilson, Chevrolet -----	81.10

Third Class.

93C	Fred Bailey, Riceville -----	68.45
94C	Charley Carter, Elcomb -----	70.95
95C	Charles Ratliff, Stone -----	71.10
96C	Louis Waters, Worley (had failed in February) -----	73.16

Called Meeting, June 14 and 15.

The Board adjourned evening of June 13, but by request of W. H. Noel and H. F. Reed, who desired to take the Mine Foreman examination, a called meeting was held June 14 and 15. This Board consisted of Inspectors C. J. Norwood, F. C. Horton, and J. H. Salmon, the miner member being excused from attending in order that he might take the examination. A set of questions different from that used while they were serving on the Board was used in the examination of Messrs. Noel

and Reed. These men passed and were awarded certificates as follows, subject to their filing the necessary affidavits, which was done:

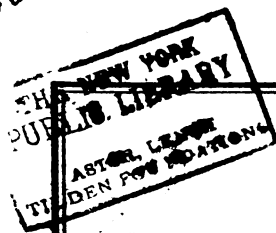
First Class Certificate.

291A Wm. H. Noel, Hazard ----- 94.60

Second Class Certificate.

1032B H. F. Reed, Straight Creek ----- 93.85

Certificates were signed and Board adjourned sine die, at 6:00 p. m., June 15.



Annual Report
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State Department of Mines
of
Kentucky



L. BLENKINSOPP, Chief

LEXINGTON, KENTUCKY
1921



THE UNIVERSITY OF CHICAGO

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[1911]

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1921



THE STATE JOURNAL COMPANY

Printer to the Commonwealth
Frankfort, Ky.

Lexington, Kentucky,
March 1, 1922

To His Excellency,
Edwin P. Morrow,
Governor of Kentucky,

Sir:—

The report herewith submitted is for the year ending December, 1921, being my Second Annual Report of the Department of Mines and which embraces the Forty-second Annual Report, upon the condition of coal mines within the State.

There has been a depression in the business conditions throughout the State during the year, especially, in regard to the mining and production of coal. Owing to adverse conditions, in connection with the manufacture of coke, I have omitted this item.

The production for the year, covering this report, decreased 22.13% or 8,609 tons. There was a decrease in the number of men employed, in and out of mines, of 14.66% or 8,557 men. The number of fatal accidents, reported to the office, are one hundred and twenty seven; which is the same number as last year. This is an increase per ton accident of 10.63% or 28,379 tons per fatal accident. All districts decreased during the depression except the Fifth District, which takes in Harlan County and twenty mines in Bell County. This showed an increase over last year of 1,439,048 tons.

During the year the eight district mine inspectors report great improvements and fine co-operation by operators and miners. I am, however, sorry to say we have had one dust explosion, killing two men. Three men were killed by gas explosions.

We have had two mine fires during the year, but no deaths from this cause. The inspectors have not been able to comply with the law, in examining the mines three times per year; as the appropriation was not sufficient to pay their expenses. It was necessary for them to lay off one month to come within the budget. All the inspectors took a course in first aid training and acted as board members, in examinations for mine foreman, during the year.

From the great increase, in the number of mining operations and expansion of statistics, to be dealt with, it has been found physically

impracticable to collect, assemble and verify these statistics, myself. I have had to use the Third District Inspector, Mr. J. A. Lewis, in times of compiling annual reports and filing maps.

The number of operators for the year are five hundred and twenty-five. The number of mines are six hundred and forty-one. A decrease of one hundred and ninety-three mines or twenty-three per cent. The mines, not working, are only temporarily abandoned; they are subject to start to work at any time. The demand will, of course, govern the amount of mines. Several new operations have started up in the Eastern and North Eastern Coal Fields.

The data we have shows five hundred and twenty-five operators; with six hundred and forty-one operations, or, an average of eighty mines to each Inspector.

The spirit of harmony and co-operation is commendable; which argues well for the best interests of the operators and persons employed in the mines, in regard to their health and safety. However, the accident list is still high and can be reduced by instructing the miner the duties to safeguard life and property and comply with the mine rules and law.

MINE FOREMAN AND FIREBOSS EXAMINATIONS

The examination held for the purpose of testing the qualifications, experience and fitness of the persons to be put in charge of mines as mine foremen and firebosses, have been held, by the Board of Examiners, twice during the year. Article 15, Acts of 1914 pages 48 and 49 of the Kentucky Mining Laws says, "Said board shall hold four regular meetings or sessions during the year." On account of not having sufficient funds for this department, they were not held.

During the year, two hundred and forty-two applicants took the examination. Two hundred and thirty passed it successfully. The law requires that only certified men be employed in a mine. In another part of this report, it shows pick mines and electric mines. A pick mine is generally shot off the solid, or in other words, shot without mining the coal or undercutting it. Mines that shoot coal, from the solid, should have competent men in charge, who will enforce

strict discipline and eliminate all dangerous practices; as tamping with coal dust and sticking full kegs of powder with a pick. Dust should be moistened and places be properly timbered to reduce the accident list.

CAUSES OF ACCIDENTS

Fall of roof at face, mine cars, mine locomotives, gas and dust explosions, careless handling of explosives, etc. Many of the accidents were caused by gross carelessness, of the parties killed; and could have been prevented, had the law been complied with.

The reports of the inspectors, are brief as requested by me. We have neither time nor money to publish anything but essential information.

PERSONNEL OF DEPARTMENT OF MINES

L. Blenkinsopp, Chief Inspector, Lexington, Ky.
Beatrice Langley, Chief Clerk, Lexington, Ky.
William Roberts, Asst. Inspector, Madisonville, Ky.
W. H. Hunt, Asst. Inspector, Central City, Ky.
J. A. Lewis, Asst. Inspector, Lexington, Ky.
R. D. Collett, Asst. Inspector, Pineville, Ky.
Lacey Laxton, Asst. Inspector, Harlan, Ky.
H. C. Faulkner, Asst. Inspector, Hazard, Ky.
M. L. Wells, Asst. Inspector, Paintsville, Ky.
Grant Phillips, Asst. Inspector, Pikeville, Ky.

BOARD OF EXAMINERS

L. Blenkinsopp, Pres., Lexington, Ky.
D. J. Ruckman, Operators' Representative, Providence, Ky.
Charles Williams, Miners' Representative, Kentenia, Ky.

In conclusion, the writer desires to express his high appreciation of the confidence reposed in him by Your Excellency; and for the moral and material aid rendered him, in the discharge of his duties, pertaining to the work of this department.

Respectfully submitted,

L. BLENKINSOPP.

Chief Inspector of Mines.

Madisonville, Ky.,
February 18, 1922

Mr. Lawson Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky.

Dear Sir:—

I herewith submit to you my Annual Report for the First District, which constitutes Hopkins, Webster, Union, Christian and Henderson Counties. These counties had one hundred and twenty-six mines in 1920. At present there are fifty-eight operators and seventy-five mines. The fifty-one mines that have not worked in 1921, may resume work again should the trade demand it.

The improvements made by the different companies were: installation of high power fans, splitting of air to comply with the law, sinking of new air shafts to improve the ventilation.

The operators in my district are willing to co-operate with me and the department, except one, the Corydon Coal Company, at Corydon, Kentucky. I have been unable to get them to do very much in the way of improvements.

I have visited the seventy-five mines once and some twice during the year. I would have visited the mines more times, had my expense allowance been sufficient, for me to do so. It would require seventy-five dollars to keep me busy twenty-two days per month. I have taken advantage of expense at all times when out in the field at work. If it were cheaper to stay out than to stay at home, I would stay out, but, if it were cheaper to stay at home, I would do so.

I am glad to say that in the discharge of my duties, I have received courteous treatment from the mine officials and miners. I desire to extend to you my thanks for the advice and assistance that you have given me at all times.

Respectfully submitted,

WILLIAM ROBERTS,
Inspector First District.

Central City, Ky.,
February 7, 1922

Hon. L. Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky.

Sir:—

I herewith take pleasure in submitting to you my Annual Report for the year of 1921.

The Second District, embraces the following counties, showing the number, in each county, as follows: Muhlenberg County 43, Ohio County 18, McLean County 12, Daviess County 10, Hancock County 10. This makes a total of ninety-three mines.

Of these mines, we have fifty-eight operators and seventy-five mines working; while the difference, eighteen mines, are practically abandoned, but may start up if trade justifies. Many improvements have been made in the ventilation by putting down shafts near the working face, installing new fans at several mines, and splitting the air as prescribed by law. The tonnage for the Second District was 3,953,423 and 7,270 men inside and outside the mines, with seven fatal accidents for the year.

During the year, I was laid off one month on account of lack of salary money. I was a board member, in the November examination for mine foremen. For six days I attended the first aid meeting for inspectors. I have made one hundred and thirty-nine inspections during the year. I lost three months due to only being allowed \$50.00 per month for expenses. It would take \$80.00 to keep me busy for twenty-two days per month.

I have taken all advantage to get the best out of the expense money allowed me.

I wish to say, I have had splendid co-operation with one or two exceptions, of the operators, miners and all concerned under my jurisdiction.

I wish to thank you for the able and courteous assistance received, at your hands, at all times.

Yours very respectfully,

W. H. HUNT,
Inspector Second District.

Lexington, Kentucky,

March 2, 1922

Hon. L. Blenkinsopp, Chief,
State Department of Mines,
Lexington, Kentucky.

Dear Sir:—

I have the honor of submitting to you, the following Annual Report for the Third District. This district is composed of Boyd, Carter, Morgan, Lee, Jackson, Breathitt, Lateral, Clay and McCreary Counties.

I regret that, due to the size and scattered nature of this district, I have been unable to more frequently visit each of the mines. The amount allowed me for traveling expenses has been limited to such an extent it has been impossible for me to work over two weeks, of each month in the field examining the mines. I have spent what time I was not making examinations, working in the office, at Lexington, which has been about one half of my time.

I wish to say that I have had full co-operation from the operators and miners, in my district, in carrying out the mining laws and eliminating unsafe practices.

There have been eight fatal accidents, in my district, during the year. Investigating these accidents I have found they were directly due to the carelessness of the men themselves and disregard of the mining law.

Due to the depression in the coal market, sixty mines, in this district have been closed all year. A great number of these have been permanently abandoned.

There were 2,770 men employed, on an average of 99 days per mine, producing 1,009,027 tons, in the district.

Yours respectfully,

J. A. LEWIS,
Inspector Third District.

Pineville, Kentucky,
March 2, 1922

Hon. L. Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky.

Sir:—

I am, herewith, respectfully submitting my Annual Report for the Fourth District for the year of 1921.

Having been laid off for one month, during the year, without pay, on account of appropriation not being sufficient and only allowed fifty dollars per month for traveling expense, it was practically impossible to make the required examinations as prescribed by law. I was called to Lexington twice as a member of Examination Board and once to take the first aid training, consequently, I only made sixty eight examinations; which my weekly reports, to your office, will show.

My district consists of part of Bell County, all of Knox and Whitley Counties. Seventy-two operators and ninety mines were operating, out of a possible one hundred and four mines, in 1920. The fourteen mines, not working, may start again on resumption of trade. There have been several improvements made; as new tipples, installation of fans and eliminating the useless furnace for ventilation.

Improvements, as to safety first, can still be extended. The law is not fully complied with in some cases. In general, I had good co-operation from the operators and miners.

All companies should compile a set of mine rules and see that they are complied with. The mining laws of Kentucky should be given to every employee as very few miners know the mining law and even some of the mine foremen are void of this knowledge.

I wish to thank the coal operators, managers and miners, in my district, for their co-operation in the performance of my duties, a continuance of which is most heartily desired.

Yours very respectfully,

R. D. COLLETT
Inspector Fourth District.

Harlan, Kentucky,
March 2, 1922

Mr. L. Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky.

Dear Sir:—

I hereby submit to you my Annual Report of the Fifth District for 1921. My district takes in sixty-eight operators with ninety-two mines. Eighteen, of these, are in Bell County and seventy-four in Harlan County, with six mines abandoned.

I have made one hundred and twenty-three inspections, during the year. Attended, as a board member, mine foremen's examination, once; and six days taking course in first aid work. I was laid off one month, without pay, as the appropriation was not sufficient for twelve months. I could not make the necessary examinations, as required by law; which states three times a year. Ninety-two mines would require two hundred and seventy-six visits. This cannot be done and would take more inspectors.

I think it is time the law makers of this State should wake up to the importance of the Department of Mines; and not regard human life so cheaply. My reports show thirty-three fatal accidents but it was not the fault of the inspector as he could not visit the mines often enough to keep in touch with the dangerous practices that existed.

My district employs 9,034 men inside and outside of the mines. The district shows many improvements during the year, new fans and larger equipment were installed, to handle the trade and mining conditions improved. There is still plenty of room for improvement in ventilation, elimination of dust by humidifying the mine air, solid shooting, tamping with coal dust instead of clay. Solid shooting should be done only at night by competent men.

Places should be properly timbered and section foremen should be put on to see that theses dangerous practices are eliminated. All companies should post a set of rules and a copy of the state mining laws should be given each employee.

I have made this report very brief, and I wish to express, with a feeling of gratitude, my appreciation for your confidence in me, your

counsel, advice and assistance; which have proven very valuable in the discharge of my duties, and the many courtesies received from your office, have been greatly appreciated. I wish to thank the operators, superintendents, foremen, and the miners for their co-operation and kind treatment during the year.

Yours very truly,

LACEY LAXTON,
Inspector Fifth District.

Hazard, Kentucky,
March 1, 1922

Hon. L. Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky.

Sir:—

I, herewith, submit my Annual Report for the year 1921. District number six constitutes Perry and Letcher Counties. I have 84 companies and 96 mines; with a total tonnage of 6,775,271 tons, 1,873 men employed outside, 7,374 men employed inside. The mines have worked on an average of 152 days; with 37 fatal accidents. This district compares very favorable with the tonnage of 1920.

I have made 125 inspections, served on the examination board once, during the year, taking up six days. I also took the first aid training, six days, in Lexington. I laid off, without pay, one month. The district is concentrated and I could get along with sixty dollars per month for expenses. You will note my district has a very high accident list which is due partly to carelessness and, partly, to unforeseen fractures in the roof. They could be reduced by the official, in charge, strictly enforcing the mining laws. All companies should post a set of rules and give their employees a copy of the mining laws; and should see that the rules and laws are enforced. The fatalities, per ton accident, shows 183,115 tons.

There have been a great deal of improvements, during the year, in the way of installing new tipples and fans to ventilate the mines instead of some, so-called, furnaces.

The proposition, to reduce accidents, is to see that the men properly timber their places and eliminate the dangerous practices. Full kegs of powder should not be allowed to be taken in the mines. Powder for one day's work only, should be carried in jacks. Clay should be used for tamping and not coal dust. Dust should be loaded out and the mine kept moist. All electric wires, of less height than prescribed by law, where men and mules cross under, should be guarded.

I ask the operators, managers, foremen and miners to co-operate, along these lines, to make the Hazard Field compare with other Districts.

I thank the head of the department for the courtesies and advice extended at all times.

Yours very truly,

H. C. FAULKNER,
Inspector Sixth District.

Paintsville, Kentucky,

Hon. L. Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky.

Sir:—

I have the honor to submit to you, this, my Annual Report for the Seventh District; which is composed of Floyd, Johnson, Lawrence and Martin Counties.

This field is scattered and is expensive to travel, to go on the N. & W. Railroad to some of the mines makes it inconvenient. I use a considerable amount of the money. I am allowed on the railroad. This district has seventy-three operations, eighty-one mines; which requires two hundred and forty-three visits, according to law and impossible to make, for the money allowed me, i. e. \$600.00 per year. It looks like a waste of money to give a salary and not allow sufficient expense money to cover the district, as prescribed by law.

I represent 4,118 miners and 2,050,503 tons and as a man, who has spent all of his life in the mines, I think more consideration

should be given the miner, by legislation, for the benefit of the wants; which is only known by the practical man and not the theorist.

I have been called to Lexington twice on the Board of Examiners, representing twelve days, six days taking a course in first aid, and six days compiling and cataloging maps; which lay on the floor. I was laid off one month, without pay, on account of no appropriation to keep me at work twelve months in the year. I only got over my district once. It was impossible to instruct or recommend anything, to advantage, to eliminate the accidents, which, were very few, fortunately, only nine. During the year, I visited twenty-seven mines, not operating, out of eighty-one mines. This, of course, was part of my expense. I was called out of my district, by the chief, to a dust explosion, at the R. G. Bailey Coal Co., Toler, Kentucky.

My district have been very co-operative and shows they complied with the law, from the very minimum accident list shown. Danger still exists, in allowing men to open kegs of powder with a pick, and taking more powder in the mine than is required for the day's work. If any thing should happen in my district, I will not be responsible, as I have recommended the law be complied with in all cases of dangerous practices. The accidents are due to non-compliance of the law.

I want to thank the operator, the officials, the miners and department, for the advice given me during my term and I appreciate same.

Yours very truly,

M. L. WELLS,
Inspector Seventh District.

Pikeville, Kentucky,

February 25, 1922.

Hon. L. Blenkinsopp,
Chief Inspector of Mines,
Lexington, Kentucky.

Sir:—

I, hereby, submit my Annual Report for the year of 1921 in brief. The number of mines in the Eighth District, in 1920 was one hundred. The mines operating for 1921 are sixty-four. There are ten mines abandoned and twenty-six mines that may open up again when trade demands. There are fifty-eight operators, for the sixty-four mines now operating. Forty-nine of these are machine mines, fifteen are pick mines. No new mines have started during the year.

I may say, I have had fair co-operation by operators and miners, but some improvements can still be made as follows: By posting rules, eliminating dangerous practices, such as opening kegs of powder in the mine by picks, by allowing men to take more powder in the mine than is required, for that day's work, by tamping with clay instead of coal dust, by not allowing more than one shot, at a time, to be fired, and give sufficient time between shots, by humidifying the mine, and loading the dust out.

There was a dust explosion at the Bailey Coal Companies mine at Toler, Kentucky, October 17, killing two men and injuring two; caused by a blown out shot from several shots, improperly tamped, and coal dust being used to tamp with instead of clay.

I wish to thank you for your support and courteous advise and assistance during the year.

Yours very truly,

GRANT PHILLIPS,

Inspector of Eighth District.

KENTUCKY STATISTICS FOR 1921

	1920	1921	Decrease	Per-cent	Increase	Per-cent
Tons Produced	38,892,044	30,282,659	8,609,385	22.13%		
Number of Mines.....	834	641	193	23.14%		
Number of Companies.....	790	525	265	33.54%		
Number of Men Employed Outside.....	13,881	9,819	4,062	29.26%		
Number of Men Employed Inside.....	44,466	39,971	4,495	10.11%		
Total Number of Men Employed.....	58,347	49,790	8,557	14.66%		
Average Number of Days Worked.....	187	109	78	41.71%		
Number of Fatal Accidents.....	127	127			28,379	10.63%
Tons Produced per Accident.....	266,825	238,446				
Number of Electrically Equipped Mines.....		270				
Number of Pick Mines.....		255				

AVERAGE ANALYSIS OF SEAMS OF COAL IN THE STATE

Number or Name of Seam	Moisture	Volatile Matter	Fixed Carbon	Ash	Sulphur	B. T. U.
West Kentucky No. 9.....	1.44	39.53	49.19	9.84	3.46	13,504
West Kentucky No. 11.....	2.22	37.48	46.68	13.62	3.65	
West Kentucky No. 14.....	6.60	30.94	54.73	7.73	2.39	11,940
Boyd County No. 7.....	5.62	39.58	50.70	4.10	1.66	
Morgan County No. 2.....	2.03	45.54	46.45	5.98	.74	14,277
McCreary County No. 1.....	2.80	37.99	54.27	4.87	3.82	
McCreary County No. 2.....	3.00	40.00	45.00	12.00	3.00	
McCreary County No. 3.....	3.04	35.50	60.65	2.85	1.10	
Sturgeon Creek .....	.94	43.06	52.90	3.10	.51	14,144
Jellico	1.99	40.53	54.23	3.25	1.43	14,655
Knox County No. 4.....	2.35	39.50	52.33	5.27	.71	14,650
Dean	2.20	45.60	29.20	3.00	.62	14,900

ANALYSIS—Continued.

Number or Name of Seam	Moisture	Volatile Matter	Fixed Carbon	Ash	Sulphur	B. T. U.
Winona	1.50	42.16	49.81	6.53	2.20	14,635
Turner	1.30	34.16	59.66	3.56	1.32	
Excelsior	1.40	40.35	55.70	2.55	1.00	
Sterling	1.77	40.37	55.77	2.69		14,647
Straight Creek	2.50	34.20	62.20	1.10		15,512
Mason	1.77	38.45	57.68	3.10	1.15	
Jack Rock	1.77	38.11	55.17	4.95	.75	
Lower Hignite	2.00	39.00	56.00	3.00	.08	
Harlan County C.	2.06	35.85	61.37	2.88	.63	
Harlan	1.62	36.80	58.34	3.24	.98	
Kellioka	1.55	41.98	53.98	2.49		
Wallins	1.44	36.20	59.72	6.08	.52	
Darby	2.56	36.93	54.80	5.71	.82	
Elkhorn No. 1.	1.35	43.72	52.78	2.35	1.04	
Elkhorn No. 2. ....	.84	41.69	54.07	3.40	.76	
Elkhorn No. 3.		36.33	62.35	1.32	.60	
Elkhorn No. 4.	4.11	36.31	58.82	4.76	.62	
Elkhorn No. 6.	2.03	36.57	55.64	5.76	.67	
Elkhorn No. 7.	1.28	34.74	59.26	6.00	.65	
Elkhorn No. 9.	2.43	36.68	60.00	2.52	.77	
Millers Creek	1.57	41.60	54.52	2.31		14,240
Upper Elkhorn	1.38	38.52	54.05	6.05	1.00	
Lower Elkhorn .....	.95	38.50	57.80	3.70	.52	
Number 2 Gas	1.57	35.88	55.38	7.17	1.11	
Pond Creek .....	.94	35.73	57.39	5.94	.55	
Freeburn	5.04	31.94	62.85	5.21	.76	
Thacker	1.87	40.89	52.29	6.07	2.57	
Alma		36.38	61.56	2.16	.66	

DISTRICT No. 1, WM. ROBERTS, INSPECTOR, MADISONVILLE, KENTUCKY

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Bunker Hill Coal Co.	Providence	Webster	E. H. Montgomery	John Cullen
2	Clifty Consolidated Coal Co.	Clay	Webster	R. O. Youn	B. R. Monrow
3	Cox & Barker Coal Co.	Providence	Webster	B. C. Cox	Virgie Vaughn
4	Diamond Coal Co.	Providence	Webster	R. L. Laxton	Will Martins
5	Dever Coal Co.	Providence	Webster	J. B. Dever	S. H. Ledbetter
6	Economy Mining Co.	Providence	Webster	J. B. Bassett	W. E. Dillender
7	Hunter Coal Co.	Providence	Webster	W. L. Funkhouser	Jeff Wilson
8	Hall-Force Coal Co.	Providence	Webster	H. M. Force	J. E. Leeper
9	Highland Mining Co.	Providence	Webster	J. T. Aldridge	J. L. Jennings
10	Leeper Coal Co.	Providence	Webster	T. L. Montgomery	T. B. Fugate
11	Providence Coal & Mining Co.	Providence	Webster	C. E. Wynn & A. L. Donan	W. L. Funkhouser
12	Rice Martin Coal Co.	Providence	Webster	J. L. Henon	Roy Cobb
13	Ruckman Coal Co.	Providence	Webster	J. T. Aldridge	W. B. Melton
14	R. W. Hunter Coal Co.	Providence	Webster	R. W. Hunter	Will Roberts
15	St. Bernard Mining Co.	Providence	Webster	A. G. Spillman	C. M. Butterfield
16	Victory Coal Co.	Providence	Webster	E. M. Young	A. W. Hinton
17	West Kentucky Coal Co.	Sturgis	Webster	W. W. Kirk & Jno. Palmer	T. N. Simmons
18	West Virginia Coal Co., of Mo.	Sebree	Webster	J. L. Henon	Claud Bivins
19	Wynn Coal Co.	Providence	Webster	E. M. Young	Chas. W. Hale
20	Young & Morgan Coal Co.	Providence	Webster	Roy A. Grashon	M. B. Brown
21	Buck Run Coal Co.	Providence	Hopkins	Jno. Hughett	S. E. Jackson
22	Circle City Coal Co.	St. Charles	Hopkins	John Carroll	M. S. Yokeley
23	Cane Creek Coal Co.	Nebo	Hopkins	Roy A. Grashon	T. H. Fox
24	Coil Coal Co.	Daniel Boone	Hopkins	Jno. Hughett	W. Belcher & T. N. Jones
25	Chicasaw Coal Co.	Madisonville	Hopkins	B. C. Mitchell	
26	Grape Vine Coal Co.	Madisonville	Hopkins	Jno. M. Hale	
27	Hamblett Mining Co.	Madisonville	Hopkins	C. B. Frathen	
28	Hart Coal Corp.	Nortons Gap	Hopkins	T. H. Salmon	
29	Jones Coal Co.	Madisonville	Hopkins	T. N. Jones	
30	Mason Mining Co.	Madisonville	Hopkins	Earnest Syon	
31	Norton Coal & Mining Co.	Dawson Springs	Hopkins	F. P. Hinkered & S. Hanter	
		Nortonville	Hopkins		

STATE DEPARTMENT OF MINES OF KENTUCKY

19

No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
1	Pick	6'	11	Drift	341	1	6	4		I. C.
2	Electric	5'	9	Shaft	102,952	12	135	153		L. & N.
3	Pick	5'	9	Slope	9,223	2	12	150		L. & N.
4	Air	4' 10"	9	Slope	38,078	10	50	80		L. & N.
5	Pick	4' 8"	9	Slope						L. & N.
6	Pick	4' 6"	11	Shaft						Not Co-operating
7	Pick	4' 10"	9	Drift	56,785	7	45	215		
8	Pick	4' 9"	9	Shaft	1,400	5	35	4		
9	Electric	5' 4"	11	Slope	86,665	12	135	196	1	L. & N. & I. C.
10	Pick	4' 10"	9	Slope	5,865	3	15	75		I. C.
11	Electric	4' 10"	9	Shaft	129,744	44	170	134		L. & N. & I. C.
12	Pick	4' 6"	9	Slope						L. & N. & I. C.
13	Electric	4' 8"	9	Shaft	79,000	12	130	162		L. & N. & I. C.
14	Pick	6'	11	Slope	39,695	8	35	207		L. & N.
15	Pick	5'	9	Shaft	59,420	17	90	70		L. & N.
16	Pick	6'	11	Slope	5,565	2	10	46		L. & N. & I. C.
17	Electric	4' 10"	9	Shaft	374,489	73	480	105	2	L. & N. & I. C.
18	Pick	4' 6"	9	Shaft		10	20	26		L. & N.
19	Pick	6'	11	Slope	7,420	4	20	57		L. & N.
20	Pick	5'	9	Drift	525	5	29	4		
21	Pick	5' 11"	9	Drift	1,438	2	5	106		I. C.
22	Pick	6'	9	Drift	31,213	20	65	98		I. C.
23	Pick	6'	11	Shaft	13,902	4	25	121		L. & N.
24	Pick	6"	11	Slope	73,203	18	145	97		L. & N.
25	Pick	5'	9	Shaft	19,271	6	25	172		L. & N.
26	Pick	4' 8"	9	Drift	49,243	21	95	148		L. & N.
27	Pick	4' 8"	9	Drift	22,659	5	50	95		L. & N.
28	Pick	4' 8"	9	Slope	230,221	117	305	93		Not Co-operating
29	Pick	6'	11	Slope						L. & N.
30	Electric	4' 10"	9	Drift	24,129	20	55	92		I. C.
31	Electric	4' 10"	9	Shaft	240,798	57	243	98	1	I. C.

DISTRICT NO. 1—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	Pontiac Coal Co.	Madisonville	Hopkins	J. B. Blanks	
33	Robinson Coal Co.	Madisonville	Hopkins	Lesley Hickman	
34	Reinecke Coal & Mining Co.	Madisonville	Hopkins	E. Brown	M. Arbogosh
35	Nebo American Coal Co.	Nebo	Hopkins	Pearl Brassham	R. G. Hart
36	Sterling Coal Co.	Daniel Boone	Hopkins	Paul G. Gannon	Abe Hale
37	Sunsit Coal Co.	Madisonville	Hopkins	W. E. Carroll	Tom Rogers
38	St. Bernard Mining Co.	Madisonville	Hopkins	A. G. Spillman	
39	Woodruff Coal Co.	Earlington	Hopkins	Clay Woodruff	J. C. Woodruff
40	Empire Coal Co.	St. Charles	Christian	S. J. Foster, Jr.	Dolph Woodruff
41	Memphis Coal Mining Co.	Crofton	Christian	R. H. Purall	W. Scroggins & W. O. Morris
42	Williams Coal Co.	Mannington	Christian	B. D. Williams, Jr.	Smith Langston
43	Cordon Coal Co.	Corydon	Henderson	J. D. Lewis	
44	Canoë Creek Coal Co.	Henderson	Henderson	E. H. Hart	Paul Eubanks
45	Dixie Coal Co.	Spottsville	Henderson	Geo. S. Pritchett, Jr.	
46	John Archbold Coal Co.	Bluff City	Henderson	Edward Archbold	Dan Barrett
47	Nicholson Mining & Mfg. Co.	Henderson	Henderson	F. W. Nicholson	J. H. Napes
48	Pittsburg Coal Co.	Henderson	Henderson	Alexander Blair	W. P. Smith
49	Panama Coal Co.	Baskett	Henderson	C. D. Cuttingham	E. Miller
50	Jennings Coal Co.	Robards	Henderson	H. B. Jennings	
51	Southland Coal Co.	Henderson	Henderson	W. L. Hughes	
52	Bell Union Coal & Mining Co.	Henderson	Union	John W. Andrews	J. Birch & W. Hinton
53	Hereules Coal Co.	Curlaw	Union	R. S. Davis	O. O'Bryan
54	Kingston Coal & Mining Co.	Morganfield	Union	A. C. Stanley	Evaret Ames
55	Madison Coal Corp.	Morganfield	Union	S. J. Merritt	P. J. Sullivan
56	Morganfield Coal & Coke Co.	Dekovan	Union	J. W. McGinnis	A. D. Reed
57	Union County Coal Co.	Morganfield	Union	W. L. Jarvis	
58	West Kentucky Coal Co.	Uniontown	Union	W. A. Jones	
		Sturgis			

STATE DEPARTMENT OF MINES OF KENTUCKY

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No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
32	Pick	6'	11	Slope	6,428	3	12	58		L. & N. Not Co-operating
33	Pick	4'	6	Drift				71		
34	Electric	6'	11	Shaft	76,277	25	185	92	1	L. & N. I. C.
35	Electric	5'	9	Shaft	22,195	10	50	80		
36	Electric	6'	11	Slope	101,319	50	160	141	1	L. & N. L. & N. & I. C.
37	Electric	6'	11	Shaft	159,177	16	1,040	103		
38	Electric	4' 10"	9	Drift	774,519	179	10	10		
39	Pick	4' 10"	9	Slope	610	5	15	173		
40	Electric	4'	6	Shaft	33,809	10	115	236	1	L. & N. L. & N.
41	Electric	4'	6	Drift	89,489	22	80	157		
42	Pick	4'	6	Slope	54,982	5	20	154		Not Co-operating
43	Electric	5'	12	Shaft	20,812	5	15	122		
44	Electric	4'	9	Shaft	6,759	8	12	4		Green River Green River
45	Pick	4'	9	Shaft	200	4	125	129		L. & N.
46	Pick	5"	9	Shaft	14,718	4	60	56		
47	Electric	4' 2"	9	Shaft	75,560	10	350	208		L. & N. Not Co-operating
48	Electric	4'	9	Shaft	14,069	7	110	71		L. & N. & I. C.
49	Electric	4' 8"	9	Shaft	201,000	30	55	152		I. C.
50	Pick	4'	9	Shaft	56,003	20	60	80		L. & N. & I. C.
51	Electric	4'	9	Slope	21,735	7	280	229	1	
52	Electric	5'	11	Shaft	19,394	10	35	143		I. C.
53	Pick	6"	11	Drift	296,270	45	68	24		I. C.
54	Electric	5'	11	Shaft	18,469	8	420	152		
55	Electric	4' 8"	9	Shaft	5,592	21				
56	Pick	4' 6"	11	Shaft	392,335	58				
57	Electric	5'	9	Shaft						
58	Electric	5'	9	Shaft	4,164,965	1,059	5,799	101	8	

DISTRICT No. 2, W. H. HUNT, INSPECTOR, CENTRAL CITY, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Central Kentucky Coal Co.	Lewisport	Hancock	T. J. Alsop	T. N. Simons
2	Clement Coal Co.	Hawesville	Hancock	Roy Clement	
3	G. W. Newman Coal Co.	Hawesville	Hancock	G. W. Newman	
4	Geo. Dixon Coal Co.	Lewisport	Hancock		
5	M. E. Divine Coal Co.	Hawesville	Hancock		
6	Trumbo Coal Co.	Hawesville	Hancock	J. W. Trumbo	
7	Bon Harbor Coal Co.	Owensboro	Daviess	Jim Cheganis	George Smith
8	Geo. H. Rudy Coal Co.	Owensboro	Daviess	R. W. Moglinger	
9	J. Lee Rudy Coal Co.	Owensboro	Daviess	A. Clements	
10	Lilly Mead Coal Co.	Owensboro	Daviess	Wm. O'Bryan	J. W. Day
11	M. & O. Coal & Mining Co.	Owensboro	Daviess	Will Overstreet	
12	Ratican Coal Co.	Owensboro	Daviess	J. A. Derne	Will Eaeing
13	R. L. O'Bryan Coal Co.	Owensboro	Daviess	R. L. O'Bryan	
14	Superior Coal Co.	Owensboro	Daviess	J. W. Newcomb	
15	Universal Coal Co.	Owensboro	Daviess	H. Henry	
16	W. P. Patrick Coal Co.	Owensboro	Daviess	W. P. Patrick	
17	Beaver Dam Coal Co.	Beaver Dam	Ohio	R. Boker	T. J. Barnes
18	Broadway Coal Mining Co.	Simmons	Ohio	G. M. Burton	L. D. Gandy
19	Bishop Coal Co.	Centertown	Ohio	O. Bishop	J. W. Reader
20	C. W. Wells Coal Co.	Deanfield	Ohio	C. W. Wells	
21	Harvey Jellico Coal Co.	Horton	Ohio		
22	Holt Bros. Coal Co.	McHenry	Ohio	J. H. Brady	O. L. Sensor
23	Huff Coal Co.	McHenry	Ohio	W. E. Hicks	L. Griffith
24	Kentucky Coke Co.	Echols	Ohio	L. L. Stewart	A. M. Lee
25	Rendor Coal Co.	McHenry	Ohio		
26	Tichenor Coal Co.	McHenry	Ohio		
27	West Hartford Coal Co.	Hartford	Ohio	Harold Holbrook	R. B. Eastin
28	E. M. F. Coal Co.	Island	McLean	L. B. McHargue	
29	F. B. F. Coal Co.	Island	McLean		
30	Turner Coal Co.	Island	McLean		
31	White Cal & Mining Co.	Island	McLean		

STATE DEPARTMENT OF MINES OF KENTUCKY

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No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
1	Pick	5'	5	Drift	1,296	1	5	190		Not Co-operating
2	Pick	3'	9	Drift	603	2	6	22		L. H. & St. L.
3	Pick				325	1	6	38		L. H. & St. L.
4	Pick	3'	9	Drift	940	8	7	108		L. H. & St. L.
5	Pick									L. H. & St. L.
6	Pick	5'	9	Drift	2,291	5	10	55		L. H. & St. L.
7	Pick	4'	9	Shaft	16,590	2	25	216		L. H. & St. L.
8	Pick	4'	9	Shaft	8,890	2	25	250		L. H. & St. L.
9	Pick	4'	9	Shaft	16,396	3	28	215		L. H. & St. L.
10	Pick	4'	9	Shaft	11,472	2	17	200		L. H. & St. L.
11	Pick	4'	9	Shaft	9,417	4	20	173		L. H. & St. L.
12	Pick	4'	9	Shaft	10,674	1	10	154		L. H. & St. L.
13	Pick	4'	9	Shaft	5,483	2	5	240		L. H. & St. L.
14	Pick	5'	9	Drift	5,000	2	15	120		L. H. & St. L.
15	Pick	4'	9	Shaft	588	1	5	102		L. H. & St. L.
16	Pick	4'	9	Drift	190,237	105	515	85		L. C.
17	Electric	4'	9	Drift	92,441	25	200	97		L. C. & N.
18	Electric	4'	9	Drift	11,551	5	30	60		L. C.
19	Pick	4'	9	Shaft	9,792	5	20	154		L. C.
20	Pick	4'	9	Drift	6,000	5	10	140		L. C.
21	Pick	4'	9	Slope	30,000	15	125	152		L. C.
22	Electric	5'	9	Slope	20,000	4	25	192		L. C.
23	Pick	4'	9	Shaft	81,304	50	125	152		L. C.
24	Electric	4'	9	Drift	59,575	8	90	119		L. C.
25	Electric	4'	9	Drift	19,032	10	50	61		M. H. & E.
26	Pick	4'	9	Drift	3,151	7	20	31		L. & N.
27	Pick	4'	9	Shaft	30,255	8	75	50		L. & N.
28	Pick	4'	9	Slope	2,588	10	20	60		L. & N.
29	Electric	4'	9	Drift	1,901	2	15	37		L. & N.
30	Pick	4'	9	Shaft	55,218	7	60	180		L. & N.
31	Pick	4'	9	Shaft						

DISTRICT No. 2, W. H. HUNT, INSPECTOR, CENTRAL CITY, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	Black Diamond Coal & Mining Co.	Drakesboro	Muhlenberg	H. Mills	H. Sudworth
33	Bevier Coal Co.	Cleaton	Muhlenberg	J. P. Cox	
34	Beech Creek Coal Co.	Beech Creek	Muhlenberg	J. H. Chunley	
35	C. M. Miller Coal Co.	Central City	Muhlenberg	D. A. Woodburn	C. Miller
36	Crescent Coal Co.	Bevier	Muhlenberg	F. P. Wright	R. L. Adcock
37	Greenville Coal Co.	Greenville	Muhlenberg	C. M. Martin	G. Venerable
38	Green River Collieries.	Mogg	Muhlenberg	F. E. Roland	H. Myers
39	Greenville Coal Co.	Powderly	Muhlenberg	C. M. Martin	C. Green
40	Gibraltar Coal Co.	Central City	Muhlenberg	J. A. Smith	
41	Haden Coal Co.	Mercer	Muhlenberg		
42	Kirk Coal Co.	Beech Creek	Muhlenberg	W. L. Russell	
43	Kentucky Midland Coal Co.	Midland	Muhlenberg	J. W. Blackwell	O. Bullock
44	Liberty Coal Mining Co.	Hillside	Muhlenberg	F. A. Hall	
45	Lewis Benemitz Coal Co.	Greenville	Muhlenberg	L. Benemitz	J. B. Little
46	Madison Coal Corp.	Central City	Muhlenberg	W. P. Mix	
47	Mercer Coal Co.	Central City	Muhlenberg	S. A. Green	W. Bethel
48	Middle West Coal Co.	Depoy	Muhlenberg	M. Goodman	C. R. Fulkerson
49	Nelson Creek Coal Co.	Nelson	Muhlenberg	J. W. Bostin	J. Garrett
50	Oakland Coal Co.	Greenville	Muhlenberg	Tom Mitchell	G. Simpson
51	Phoenix Coal Co.	Tarma	Muhlenberg	J. F. Bridges	Jim Bailey
52	Pacific Coal & Mining Co.	Mercer	Muhlenberg	Irvin Glass	A. Casebier
53	Rogers Bros. Coal Co.	Bevier	Muhlenberg	T. L. Rogers	
54	Rock Port Coal Co.	Central City	Muhlenberg	L. Yucker	Claud Chapman
55	Salesburg Coal Co.	Hillside	Muhlenberg		
56	Thompson Coal Co.	Drakesboro	Muhlenberg	J. J. Thompson	D. A. Woodburn
57	W. A. Wickliff Coal Co.	Greenville	Muhlenberg	Robt. Wickliff	
58	W. G. Duncan Coal Co.	Greenville	Muhlenberg		

No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
32	Electric	5'	9	Shaft	131,195	25	180	133	2	L. & N.
33	Electric	5' 8"	9	Shaft	183,979	30	210	228		L. & N.
34	Electric	5' 7"	9	Drift	172,814	40	280	112		L. & N.
35	Pick	5'	11	Shaft	3,325	2	8	109		
36	Electric	5' 4"	9	Shaft	165,279	28	225	165		L. & N.
37	Electric	4' 6"	9	Shaft	146,428	40	225	117	3	I. C.
38	Electric	7'	14	Shaft	79,007	18	120	155		L. & N.
39	Electric	4' 10"	9	Shaft	156,984	30	250	106		I. C.
40	Electric	5' 3"	9	Shaft	328,300	26	255	128		I. C.
41	Electric	6'	11	Slope	26,702	7	35	122		I. C.
42	Electric	5' 8"	9	Drift	102,977	15	125	137		I. & N.
43	Electric	4' 6"	9	Shaft	83,090	10	150	85		
44	Electric	4' 8"	9	Shaft	71,552	20	85	135		I. C.
45	Pick	5' 8"	9	Drift	230	1	6	25		I. C.
46	Electric	4' 10"	9	Shaft	298,804	60	290	201		I. C.
47	Electric	5'	9	Shaft	115,480	10	140	116		I. C.
48	Pick	5'	9	Drift	39,068	8	45	122		I. C.
49	Electric	4' 6"	9	Shaft	106,189	15	150	211	1	I. C.
50	Electric	5'	9	Drift	35,473	11	75	69		I. C.
51	Electric	5'	9	Shaft	146,014	44	232	58		I. C.
52	Electric	4' 8"	9	Shaft	70,814	15	180	94		I. C.
53	Electric	5'	9	Drift	110,749	14	140	114		L. & N.
54	Electric	4' 6"	9	Shaft	95,972	29	190	83		
55	Pick	5'	9	Shaft	350	5	50	3		I. C.
	Electric	5'	9	Shaft	55,720	10	85	135		L. & N.
	Electric	5' 6"	9	Shaft	148,013	30	230	90		L. & N.
	Electric	4' 6"	9	Drift	375,902	165	635	96	1	I. C.
					3,953,420	1,010	6,260	118	7	

DISTRICT NO. 2, W. H. HUNT, INSPECTOR, CENTRAL CITY, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	Black Diamond Coal & Mining Co.	Drakesboro	Muhlenberg	H. Mills	H. Sudworth
33	Bever Coal Co.	Cleaton	Muhlenberg	J. P. Cox	H. Sudworth
34	Bever Coal Co.	Beech Creek	Muhlenberg	J. H. Chunley	C. Miller
35	Bever Coal Co.	Central City	Muhlenberg	D. A. Woodburn	K. L. Adcock
36	Bever Coal Co.	Bever	Muhlenberg	E. P. Wright	G. Venable
37	Bever Coal Co.	Beaver	Muhlenberg	C. M. Martin	H. Myers
38	Bever Coal Co.	Beaver	Muhlenberg	F. E. Roland	C. Green
39	Bever Coal Co.	Beaver	Muhlenberg	C. M. Martin	C. Green
40	Bever Coal Co.	Beaver	Muhlenberg	J. A. Smith	C. Green
41	Bever Coal Co.	Beaver	Muhlenberg	W. L. Russell	O. Bullock
42	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	J. B. Little
43	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	Bethel
44	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
45	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
46	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
47	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
48	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
49	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
50	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
51	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
52	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
53	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
54	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
55	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
56	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
57	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
58	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
59	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
60	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
61	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
62	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
63	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
64	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
65	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
66	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
67	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
68	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
69	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
70	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
71	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
72	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
73	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
74	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
75	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
76	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
77	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
78	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
79	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
80	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
81	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
82	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
83	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
84	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
85	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
86	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
87	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
88	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
89	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
90	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
91	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
92	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
93	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
94	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
95	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
96	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
97	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
98	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
99	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell
100	Bever Coal Co.	Beaver	Muhlenberg	W. Blackwell	W. Blackwell

No.	Equipment	Height of Seam	Number of Seam	Kind of Opening
1	Air	3'		Drift
2	Electric	" "		Drift
3	Pick			Drift
4	Air			Drift
5				Drift
6	Pick			Drift
7	Pick			Drift
8				Drift
9				Drift
10				Drift
11				Drift
12				Drift
13				Drift
14				Drift
15				Drift
16				Drift
17				Drift
18				Drift
19				Drift
20				Drift
21				Drift
22				Drift
23				Drift
24				Drift
25				Drift
26				Drift
27				Drift
28				Drift
29				Drift
30				Drift

DISTRICT NO. 2, W. H. HUNT, INSPECTOR, CENTRAL CITY, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Central Kentucky Coal Co.	Lewisport	Hancock	T. J. Alsop	T. N. Simons
2	Clement Coal Co.	Hawesville	Hancock	Roy Clement	
3	G. W. Newman Coal Co.	Hawesville	Hancock	G. W. Newman	
4	Geo. Dixon Coal Co.	Lewisport	Hancock		
5	M. E. Divine Coal Co.	Hawesville	Hancock		
6	Trumbo Coal Co.	Hawesville	Hancock	J. W. Trumbo	
7	Bon Harbor Coal Co.	Owensboro	Daviess	Jim Cheganis	George Smith
8	Geo. H. Rudy Coal Co.	Owensboro	Daviess	R. W. Moglinger	
9	J. Lee Rudy Coal Co.	Owensboro	Daviess	A. Clements	
10	Lilly Mead Coal Co.	Owensboro	Daviess	Wm. O'Bryan	J. W. Day
11	M. & O. Coal & Mining Co.	Owensboro	Daviess	Will Overstreet	Will Eueing
12	Ratican Coal Co.	Owensboro	Daviess	J. A. Derne	
13	R. L. O'Bryan Coal Co.	Owensboro	Daviess	R. L. O'Bryan	
14	Superior Coal Co.	Owensboro	Daviess	J. W. Newcomb	
15	Universal Coal Co.	Owensboro	Daviess	H. Henry	
16	W. P. Patrick Coal Co.	Owensboro	Daviess	W. P. Patrick	
17	Beaver Dam Coal Co.	Beaver Dam	Ohio	R. Boker	T. J. Barnes
18	Broadway Coal Mining Co.	Simmons	Ohio	G. M. Burton	L. D. Gandy
19	Bishop Coal Co.	Centertown	Ohio	O. Bishop	J. W. Reader
20	C. W. Wells Coal Co.	Deanfield	Ohio	C. W. Wells	
21	Harvey Jellico Coal Co.	Horton	Ohio		
22	Holt Bros. Coal Co.	McHenry	Ohio	J. H. Brady	O. L. Sensor
23	Huff Coal Co.	McHenry	Ohio	W. E. Hicks	L. Griffith
24	Kentucky Coke Co.	Echols	Ohio		A. M. Lee
25	Rendor Coal Co.	McHenry	Ohio	L. L. Stewart	
26	Tichenor Coal Co.	McHenry	Ohio		
27	West Hartford Coal Co.	Hartford	Ohio	Harold Holbrook	
28	E. M. F. Coal Co.	Island	McLean	L. B. McHargue	R. B. Eastin
29	F. B. F. Coal Co.	Island	McLean		
30	Turner Coal Co.	Island	McLean		
31	White Cal & Mining Co.	Island	McLean		

STATE DEPARTMENT OF MINES OF KENTUCKY

23

No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
1	Pick	5'	5	Drift	1,296	1	5	190		Not Co-operating
2	Pick	3'	9	Drift	603	2	6	22		L. H. & St. L.
3	Pick				325	1	6	38		L. H. & St. L.
4	Pick	3'	9	Drift	940	8	7	108		L. H. & St. L.
5	Pick									L. H. & St. L.
6	Pick	5'	9	Drift	2,291	5	10	55		L. H. & St. L.
7	Pick	4'	9	Shaft	16,590	2	25	216		L. H. & St. L.
8	Pick	4'	9	Shaft	8,890	2	25	250		L. H. & St. L.
9	Pick	4'	9	Shaft	16,396	3	28	215		L. H. & St. L.
10	Pick	4'	9	Shaft	11,472	2	17	200		L. H. & St. L.
11	Pick	4'	9	Shaft	9,417	4	20	173		L. H. & St. L.
12	Pick	4'	9	Shaft	10,674	1	10	154		L. H. & St. L.
13	Pick	4'	9	Shaft	5,483	2	5	240		L. H. & St. L.
14	Pick	5'	9	Drift	5,000	2	15	120		
15	Pick	4'	9	Shaft	588	1	5	102		
16	Pick	4'	9	Drift	190,237	105	515	85		I. C.
17	Electric	4'	9	Drift	92,441	25	200	97		I. C.
18	Electric	4'	9	Drift	11,551	5	30	60		L. & N.
19	Pick	4'	9	Drift	9,792	5	20	154		I. C.
20	Pick	4'	9	Shaft	6,000	5	10	140		I. C.
21	Pick	4'	9	Drift	30,000	15	125	152		I. C.
22	Electric	4'	9	Slope	20,000	4	25	192		I. C.
23	Pick	5'	9	Slope	81,304	50	125	152		I. C.
24	Electric	4'	9	Shaft	59,575	8	90	119		I. C.
25	Electric	4'	9	Drift	19,032	10	50	61		M. H. & E.
26	Pick	4'	9	Drift	3,151	7	20	31		L. & N.
27	Pick	4'	9	Drift	30,255	8	75	50		I. & N.
28	Pick	4'	9	Shaft	2,588	10	20	60		L. & N.
29	Electric	4'	9	Slope	1,901	2	15	87		L. & N.
30	Pick	4'	9	Drift	55,218	7	60	180		L. & N.
31	Pick	4'	9	Shaft						

DISTRICT No. 2, W. H. HUNT, INSPECTOR, CENTRAL CITY, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	Black Diamond Coal & Mining Co.	Drakesboro	Muhlenberg	H. Mills	H. Sudworth
33	Bevier Coal Co.	Cleaton	Muhlenberg	J. P. Cox	
34	Beech Creek Coal Co.	Beech Creek	Muhlenberg	J. H. Chunley	C. Miller
35	C. M. Miller Coal Co.	Central City	Muhlenberg	D. A. Woodburn	R. L. Adeock
36	Crescent Coal Co.	Bevier	Muhlenberg	F. P. Wright	G. Venerable
37	Greenville Coal Co.	Greenville	Muhlenberg	C. M. Martin	H. Myers
38	Green River Collieries	Mogg	Muhlenberg	C. E. Roland	C. Green
39	Greenville Coal Co.	Powderly	Muhlenberg	C. M. Martin	
40	Gibbaltar Coal Co.	Central City	Muhlenberg	J. A. Smith	
41	Haden Coal Co.	Mercer	Muhlenberg		
42	Kirk Coal Co.	Beech Creek	Muhlenberg	W. L. Russell	
43	Kentucky Midland Coal Co.	Midland	Muhlenberg	J. W. Blackwell	O. Bullock
44	Liberty Coal Mining Co.	Hillside	Muhlenberg	F. A. Hall	
45	Lewis Benemitz Coal Co.	Greenville	Muhlenberg	L. Benemitz	J. B. Little
46	Madison Coal Corp.	Central City	Muhlenberg	W. P. Mix	
47	Mercer Coal Co.	Central City	Muhlenberg	S. A. Green	W. Bethel
48	Middle West Coal Co.	Depoy	Muhlenberg	M. Goodman	C. R. Fulkerson
49	Nelson Creek Coal Co.	Nelson	Muhlenberg	J. W. Bostin	J. Garrett
50	Oakland Coal Co.	Greenville	Muhlenberg	Tom Mitchell	G. Simpson
51	Phoenix Coal Co.	Tarma	Muhlenberg	J. F. Bridges	Jim Bailey
52	Pacific Coal & Mining Co.	Mercer	Muhlenberg	Irvin Glass	A. Casebier
53	Rogers Bros. Coal Co.	Bevier	Muhlenberg	T. L. Rogers	
54	Rock Port Coal Co.	Central City	Muhlenberg	L. Yucker	Claud Chapman
55	Salesburg Coal Co.	Hillside	Muhlenberg		
56	Thompson Coal Co.	Drakesboro	Muhlenberg	J. J. Thompson	D. A. Woodburn
57	W. A. Wickliff Coal Co.	Greenville	Muhlenberg	Robt. Wickliff	
58	W. G. Duncan Coal Co.	Greenville	Muhlenberg		

No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
32	Electric	5'	9	Shaft	131,195	25	180	133	2	L. & N.
33	Electric	5' 8"	9	Shaft	183,979	30	210	228		L. & N.
34	Electric	5' 7"	9	Drift	172,814	40	280	112		L. & N.
35	Pick	5'	11	Shaft	3,325	2	8	109		
36	Electric	5' 4"	9	Shaft	165,279	28	225	165	3	L. & N.
37	Electric	4' 6"	9	Shaft	146,428	40	225	117		L. C. & N.
38	Electric	7'	14	Shaft	79,007	18	120	155		L. C. & N.
39	Electric	4' 10"	9	Shaft	156,984	30	250	106		L. C.
40	Electric	5' 3"	9	Shaft	328,300	26	255	128		L. C.
41	Electric	6'	11	Slope	26,702	7	35	122		L. C.
42	Electric	5' 8"	9	Drift	102,977	15	125	137		L. & N.
43	Electric	4' 6"	9	Shaft	83,090	10	150	85		
44	Electric	4' 8"	9	Shaft	71,552	20	85	135		L. C.
45	Pick	5' 8"	9	Drift	230	1	6	25		L. C.
46	Electric	4' 10"	9	Shaft	298,804	60	290	201		L. C.
47	Electric	5'	9	Shaft	115,480	10	140	116		L. C.
48	Pick	5'	9	Drift	39,068	8	45	122		L. C.
49	Electric	4' 6"	9	Shaft	106,189	15	150	211	1	L. C.
50	Electric	5'	9	Drift	35,473	11	75	69		L. C.
51	Electric	5'	9	Shaft	146,014	44	232	58		L. C.
52	Electric	4' 8"	9	Shaft	70,814	15	180	94		L. C. & N.
53	Electric	5'	9	Drift	110,749	14	140	114		
54	Electric	4' 6"	9	Shaft	95,972	29	190	83		
55	Pick	5'	9	Shaft	350	5	50	3		L. C.
56	Electric	5' 720	9	Shaft	55,720	10	85	135		L. & N.
57	Electric	5' 6"	9	Shaft	148,013	30	230	90		L. & N.
58	Electric	4' 6"	9	Drift	375,902	165	635	96	1	L. C.
					3,953,420	1,010	6,260	118	7	

DISTRICT NO. 3, J. A. LEWIS, INSPECTOR, LEXINGTON, KY.

ANNUAL REPORT OF THE

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Ashland Iron & Mining Co.	Rush	Boyd	Sam Sooton	Andy Alexander
2	Big Run Coal Co.	Princess	Boyd	G. W. McNeal	C. H. Jouchins
3	Frank H. Clere Coal Co.	Coalton	Boyd	D. R. Clere	
4	Princess Coal Co.	Princess	Boyd	C. V. Bartels	
5	Thomas Coal Co.	Ashland	Boyd		
6	Wm. Wurts Coal Co.	Ashland	Boyd	Wm. Wurts	
7	Clearfield Lumber Co.	Redwine	Morgan		J. H. Atkins
8	Charter Coal Co.	Redwine	Morgan	Arson Lowe	W. P. Stamper &
9	Kentucky Block Cannel Coal Co.	Cannel City	Morgan		Tom Davis
10	Lee Coal Co.	Clearfield	Morgan	Guy Snyder	J. H. Atkins
11	Premium Cannel Coal Co.	Lenox	Morgan	H. C. Cox	
12	Okey Meadows Elkhorn Coal Co.	Redwine	Morgan	Okey Meadows, Sr.	Okey Meadows, Jr.
13	Comargo Coal Co.	Lacoleman	McCreary	B. C. Jones	W. A. Robinson
14	Barron Fork Coal Co.	Barron Fork	McCreary	B. C. Efin	J. B. Leveridge
15	J. D. Erskine Coal Co.	Parkerslake	McCreary	J. D. Erskine	
16	Paint Cliff Mining Co.	Paint Cliff	McCreary	Ivan Livingston	T. S. Davis
17	Premier Coal Co.	Yamacraw	McCreary	Walter Proctor	A. E. Oakley
18	St. Michiel Coal Co.	Paint Cliff	McCreary	Ivan Livingston	
19	Stearns Coal & Lumber Co.	Stearns	McCreary	J. E. Butler	
20	W. S. Tate Coal Co.	Indian Head	McCreary	W. S. Tate	W. S. Tate
21	Beattyville Coal Co.	Beattyville	Lee	G. W. Anderson	Geo. Parks
22	Biggs Coal Co.	Banford	Lee	L. A. Shoemaker	
23	Goose Creek Coal Co.	London	Laurel		
24	J. B. McNeil Coal Co.	East Bernstadt	Laurel	L. N. Birk	Geo. Parks
25	Mountain Gem Coal Mining Co.	East Bernstadt	Laurel	R. D. Jones	
26	New Diamond Coal Co.	East Bernstadt	Laurel		
27	Estate of N. Thayer	Partlow	Carter		
28	Gen'l Refractory Co.	Hitchens	Carter	Clayton S. Hitchens	
29	Harbison Walker Ref. Co.	Denton	Carter	S. E. Ruth	C. L. Reeves
30	Johns Run Coal Co.	Grayson	Carter	Geo. Fleming	Hobart Holbrook

STATE DEPARTMENT OF MINES OF KENTUCKY

27

No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
1	Air	3' 6"	7	Drift	22,731	14	75	94		C. & O.
2	Electric	3' 8"	7	Drift	4,795	10	20	34		C. & O.
3	Pick	4'	7	Drift	2,998	8	20	79		C. & O.
4	Air	3' 10"	7	Drift	5,608	6	12	126	1	C. & O.
5		3' 10"	7	Drift						Not Co-operating
6	Pick	3' 10"	7	Drift	8,100	3	20	91		C. & O.
7	Pick	3' 6"	3	Drift	3,803	10	14	205		C. & O.
8	Pick	3'	2	Drift	1,013	2	8	52		C. & O.
9	Electric	3' 6"	2	Drift	17,240	50	80	225		L. & N.
10	Pick	2' 6"	2	Drift	3,670	5	20	77		C. & O.
11	Pick	3'	2	Drift	2,000	5	10	90		C. & O.
12	Pick	3'	1	Drift	5,360	3	15	110		C. & O.
13	Pick	4' 6"	2	Drift	11,647	15	30	123		Southern
14	Pick	2' 10"	3	Drift	1,200	18	60	9		Southern
15	Pick	3' 6"	3	Drift	11,663	5	40	84		Southern
16	Pick	4'	2	Drift	8,850	8	30	55		Southern
17	Electric	4' 6"	2	Drift	21,272	30	50	232		Southern
18	Pick	4'	2	Drift	4,338	6	15	51		Southern
19	Electric	5'	1	Drift	521,073	200	550	140	2	Southern
20	Pick	3' 6"	3	Drift	24,763	6	55	136		Southern
21	Pick	3'		Drift	7,620	20	14	23		L. & N.
22	Pick	3'	Sturgen	Drift	800	4	15	7		L. & N.
23	Pick	3'	Jellico	Drift	2,904	3	20	49		L. & N.
24	Pick	3'	Jellico	Drift	16,728	8	65	212	1	L. & N.
25	Pick	3'	Jellico	Drift	45,560	18	110	214		L. & N.
26	Pick	3'	Jellico	Drift	20,873	9	65	120		L. & N.
27				Drift	5,531	9	14	123		C. & O.
28	Electric	3' 10"	3	Drift	21,577	10	45	126	1	C. & O.
29	Pick	4' 8"	7	Drift	25,231	20	50	161		C. & O.
30	Electric	5'	5	Drift	1,564	5	15	20		C. & O.

DISTRICT No. 3—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
31	Kentucky Gem Coal Co.	Rush	Carter	W. R. Stewart	B. Hereford
32	Midland Coal Co.	Rush	Carter	C. H. McFarland	
33	Clay County Coal Co.	Hima	Clay		W. L. Winchester
34	Columbia Panama Coal Co.	Manchester	Clay		
35	Furnice Gap Coal Co.	Hima	Clay	E. L. Shell	
36	Gregory Branch Coal Co.	Sibert	Clay	Henry Lee	Virgil Higgins
37	Horse Creek Coal Co.	Manchester	Clay	J. B. Wall	
38	Cumberland & Manchester Co.	Hima	Clay	T. G. Allen	
39	Hensley Coal Co.	Sibert	Clay	H. M. Hensley	Jeff France
40	King Blue Gem Coal Co.	Hima	Clay	B. F. White	
41	Morning Glow Coal Co.	Barbourville	Clay	J. L. Drake	
42	Sun Coal Co.	Sibert	Clay	C. C. Harris	D. M. Stewart
43	Barwick Coal Co.	Barwick	Breathitt	Lee Congleton	Enoch May
44	Boone Fork Coal Co.	Jackson	Breathitt	J. E. Dean	Jas. W. Speaks
45	Ellser Coal Co.	Saldee	Breathitt	Emory Cane	David Caudill
46	Emory Cane Coal Co.	Jackson	Breathitt		
47	Saldee Coal Co.	Saldee	Breathitt		
48	Jones Bros. Coal Co.	Jackson	Breathitt	W. H. Homic	B. G. Dunleavy
49	Mowbray-Robinson Coal Co.	Press	Breathitt		
50	Progressive Coal Co.	Cella	Breathitt	G. W. Gordon	
51	Panhandle Coal Co.	Jackson	Breathitt	E. O. Bailey	
52	R. T. Davis Coal Co.	Jackson	Breathitt	R. T. Davis	
53	Riverside Coal Co.	Gunn	Breathitt	G. W. Gordon	
54	Shackelford & Taulbee Coal Co.	Barwick	Breathitt	R. Shackelford	

No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
31	Pick	3' 6"	8	Drift	3,000	5	20	51		C. & O.
32	Pick	3' 6"	7	Drift	17,871	5	30	217		C. & O.
33	Pick	3' 6"	Jellico	Drift	1,333	10	70	103		L. & N.
34	Pick	5'	Jellico	Drift	15,243	6	20	136		L. & N.
35	Pick	3' 4"	Jellico	Drift	14,275	8	30	97		L. & N.
36	Pick	3' 2"	Jellico	Drift	34,376	9	90	160		L. & N.
37	Pick	3' 4"	Jellico	Drift	1,972	6	34	8		L. & N.
38	Pick	2' 6"	Jellico	Drift	3,020	1	8	163	1	L. & N.
39	Pick	3' 4"	Jellico	Drift	2,279	2	15	69		L. & N.
40	Pick	3'	Jellico	Drift	1,020	2	7	30		L. & N.
41	Pick	3'	Jellico	Drift	43,905	3	25	209		L. & N.
42	Pick	3' 4"	Jellico	Drift						Not Co-operating
43	Pick	3'	4 Rider	Drift	22,375	5	20	131		L. & N.
44	Pick	3'		Drift	100	2	6	9		L. & N.
45	Electric	4'	4 Rider	Drift	2,941	5	25	57		L. & N.
46	Pick	3' 6"	4 Rider	Drift	1,181	6	21	12		Not Co-operating
47	Pick	3'	5 Hazard	Drift	15,848	5	20	153		L. & N.
48	Pick	3' 6"	4 Rider	Drift	766	2	15	17		L. & N.
49	Pick	3' 4"	4 Rider	Drift	12,344	3	10	190		L. & N.
50	Pick	3'	4 Rider	Drift						Not Co-operating
51	Air	4'	4 Rider	Drift	3,092	3	15	25		L. & N.
52	Pick	4'	4 Rider	Drift	58,800	8	75	275	2	L. & N.
53	Pick	3' 10"	4 Rider	Drift	8,248	8	25	66		L. & N.
54	Pick	3' 4"	4 Rider	Drift	4,226	6	12	94		L. & N.
					1,009,027	619	2,151	99	8	

DISTRICT No. 4, R. D. COLLETT, INSPECTOR, PINEVILLE, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Bon Jellico Coal Co.	Bon Jellico	Whitley	T. F. Smith	Guss R. Fritz
2	Burk Hollow Coal Co.	Jellico, Tenn.		W. F. Woods	M. F. Hudleson
3	Bennett-Johnson Blue Gem.	Gatlinf	Whitley	C. S. Bennell	
4	C. C. Vermillion Coal Co.	Jellico, Tenn.			
5	Drake Blue Gem Coal Co.	Nevisdale	Whitley	W. M. Stott	
6	Gatlinf Coal Co.	Gatlinf	Whitley	T. H. Black	Rose Fritz
7	Jellico Coal Mining Co.	Mount Ash	Whitley	H. H. McCutchen	S. J. Marsh
8	Main Jellico Mountain Coal Co.	Jellico, Tenn.	Whitley	W. F. Perkins	Ben Rose
9	Mahan Jellico Coal Co.	Packard	Whitley	Archey Scott	Robt. Thomas
10	Mammoth Blue Gem Coal Co.	Gatlinf	Whitley	Sol Smith	Marion Angle
11	Polly Coal Co.	Packard	Whitley	Robt. Thomas	
12	Procter Coal Co.	Redash	Whitley	R. B. Carter	Mat Moore
13	Patterson Creek Coal Co.	Pollyton	Whitley	W. M. Stott	Fred Powers
14	Steins Blue Gem Coal Co.	Redash	Whitley		
15	Wallen Jellico Coal Co.	Gatlinf	Whitley	Geo. M. Wallen	
16	Carter Coal Co.	Warren	Knox	J. W. Jennings	
17	Dry Branch Coal Co.	Grays	Knox		
18	Ennis Coal Co.	Himyar	Knox	W. H. McDarmot	Fred Phortis
19	Franklin Coal Co.	Artemus	Knox	W. D. Kinder	G. A. Kinder
20	Hughes Horse Creek Coal Co.	Barbourville	Knox	T. T. Gregory	Wm. Taulbee
21	Jackson Coal Mining Co.	Artemus	Knox		
22	J. T. Grays Coal Co.	Grays	Knox	J. T. Graves	W. H. Lee
23	Kanawha Knox Coal Co.	Elys	Knox	W. C. Martin	P. R. Trospen
24	North Jellico Coal Co.	Wilton	Knox	A. Frost	Chas. Frost
25	Paige Jellico Coal Co.	Elys	Knox	F. F. McCoy	
26	R. D. Blue Gem Coal Co.	Barbourville	Knox		Frank James
27	Wheeler Coal Co.	Trospen	Knox		
28	Fayette Jellico Coal Co.	Anchor	Knox	Claud Congleton	M. Cecil
29	American Fuel Co.	Wallsend	Bell	Edgar Mooney	
30	Atlas Mining Co.	Ralston	Bell	Dan France	Cbe Moreland
31	Boone Trail Coal Co.	Pineville	Bell	R. H. Barker	Ed. Swartz

STATE DEPARTMENT OF MINES OF KENTUCKY

31

No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
1	Electric	3' 4"	Jellico	Drift	61,918	25	110	158	1	L. & N.
2	Pick	2' 6"	Jellico	Drift	17,991	15	70	89		L. & N.
3	Pick	2' 6"	Jellico	Drift	15	2	6	15		L. & N.
4	Pick	2'	Jellico	Drift	1,212	3	22	20		Not Co-operating
5	Pick	2'	Jellico	Drift	4,870	2	35	73		L. & N.
6	Electric	3' 4"	Jellico	Drift	170,343	175	275	107		L. & N.
7	Electric	3'	Jellico	Drift	36,817	15	75	99		L. & N.
8	Pick	3' 3"	Jellico	Drift	14,387	7	30	78		L. & N.
9	Electric	3' 6"	Jellico	Drift	77,731	50	165	106		L. & N.
10					4,520	2	30	48		L. & N.
11	Pick	2'	Jellico	Drift	3,212	1	15	43		L. & N.
12	Pick	3' 6"	Jellico	Drift	474	5	6	10		L. & N.
13	Pick	2'	Jellico	Drift	3,155	2	20	98		L. & N.
14					14,618	3	32	257		L. & N.
15	Pick	2' 4"	Jellico	Drift	2,313	2	12	71		L. & N.
16	Electric	3' 6"	Dean	Drift	85,536	65	170	210	1	L. & N.
17					100	4	4	4		L. & N.
18	Pick	3' 4"	St. Creek	Drift	1,745	2	9	58		L. & N.
19	Pick	7'	Dean	Drift	2,184	4	10	30		L. & N.
20	Pick	3'	Jellico	Drift	6,000	5	13	152		L. & N.
21					4,102	5	12	50		L. & N.
22	Pick	3' 4"	Jellico	Drift	19,350	5	20	192	1	L. & N.
23	Electric	4' 6"	Jellico	Drift	33,570	10	55	85		L. & N.
24	Electric	3' 2"	Jellico	Drift	231,289	70	325	222		L. & N.
25	Electric	3' 6"	Jellico	Drift	15,921	20	75	38	1	L. & N.
26	Pick	2' 2"	Jellico	Drift	640	1	12	16		L. & N.
27					14,943	14	50	62		L. & N.
28	Electric	3' 2"	Jellico	Drift	11,100	15	50	80		L. & N.
29	Electric	2' 6"	Jellico	Drift	3,000	4	18	77		L. & N.
30	Electric	3' 6"	Dean	Drift	12,316	8	50	87		L. & N.
31	Pick	3' 2"	St. Creek	Drift	17,604	5	20	151		L. & N.

DISTRICT No. 2, W. H. HUNT, INSPECTOR, CENTRAL CITY, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	Black Diamond Coal & Mining Co.	Drakesboro	Muhlenberg	H. Mills	H. Sudworth
33	Bevier Coal Co.	Cleaton	Muhlenberg	J. P. Cox	
34	Beech Creek Coal Co.	Beech Creek	Muhlenberg	J. H. Chunley	
35	C. M. Miller Coal Co.	Central City	Muhlenberg	D. A. Woodburn	C. Miller
36	Crescent Coal Co.	Bevier	Muhlenberg	F. P. Wright	R. L. Adcock
37	Greenville Coal Co.	Greenville	Muhlenberg	C. M. Martin	G. Venerable
38	Green River Collieries	Mogg	Muhlenberg	F. E. Roland	H. Myers
39	Greenville Coal Co.	Powderly	Muhlenberg	C. M. Martin	C. Green
40	Gibraltar Coal Co.	Central City	Muhlenberg	J. A. Smith	
41	Haden Coal Co.	Mercer	Muhlenberg		
42	Kirk Coal Co.	Beech Creek	Muhlenberg	W. L. Russell	
43	Kentucky Midland Coal Co.	Midland	Muhlenberg	J. W. Blackwell	O. Bullock
44	Liberty Coal Mining Co.	Hillside	Muhlenberg	F. A. Hall	
45	Lewis Benemitz Coal Co.	Greenville	Muhlenberg	L. Benemitz	J. B. Little
46	Madison Coal Corp.	Central City	Muhlenberg	W. P. Mix	
47	Mercer Coal Co.	Central City	Muhlenberg	S. A. Green	W. Bethel
48	Middle West Coal Co.	Depoy	Muhlenberg	M. Goodman	C. R. Fulkerson
49	Nelson Creek Coal Co.	Nelson	Muhlenberg	J. W. Bostin	J. Garrett
50	Oakland Coal Co.	Greenville	Muhlenberg	Tom Mitchell	G. Simpson
51	Phoenix Coal Co.	Tarna	Muhlenberg	J. F. Bridges	Jim Bailey
52	Pacific Coal & Mining Co.	Mercer	Muhlenberg	Irvin Glass	A. Caschier
53	Rogers Bros. Coal Co.	Bevier	Muhlenberg	T. L. Rogers	
54	Rock Port Coal Co.	Central City	Muhlenberg	L. Yucker	Claud Chapman
55	Salesburg Coal Co.	Hillside	Muhlenberg		
56	Thompson Coal Co.	Drakesboro	Muhlenberg	J. J. Thompson	D. A. Woodburn
57	W. A. Wickliff Coal Co.	Greenville	Muhlenberg	Robt. Wickliff	
58	W. G. Duncan Coal Co.	Greenville	Muhlenberg		

Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
32 Electric	3' 6"	Jack Rock	Drift	1,059	1	10	31		Not Co-operating
33 Pick	4'	St. Creek	Drift	43,458	10	80	183		L. & N.
34 Electric	4'	Turner	Drift	5,142	15	35	26		L. & N.
35				4,631	10	40	20		L. & N.
36 Pick	4'		Drift	27,413	12	50	169		L. & N.
37 Electric	3' 2"	St. Creek	Drift	8,302	15	115	19	1	L. & N.
38 Electric	3' 6"	Sterling	Drift	4,501	6	25	43		L. & N.
39 Pick	2' 6"	St. Creek	Drift	2,039	5	35	22		L. & N.
40 Pick	3' 8"	St. Creek	Drift						Not Co-operating
41				475					L. & N.
42 Pick	2' 6"	St. Creek	Drift	9,257	30	35	88	1	L. & N.
43 Electric	4' 6"	Poplar Lick	Drift						Not Co-operating
44 Pick	2' 4"	Jellico	Drift	4,531	2	15	73		L. & N.
45 Pick	4'	Winona	Drift	117,891	40	175	144		L. & N.
46 Electric	3' 9"	St. Creek	Drift						Not Co-operating
47				4,092	6	25	41		L. & N.
48 Pick	2' 9"	St. Creek	Drift	25	4	8	21		L. & N.
49 Pick			Drift	6,128	10	65	18		L. & N.
50 Electric	3' 8"	Poplar Lick	Drift	21,503	8	35	52		L. & N.
51 Electric	3' 2"	St. Creek	Drift	54,120	25	115	101		Not Co-operating
52 Electric	3' 6"	Dean	Drift						L. & N.
53 Pick	2' 6"	Wallens	Drift	15,892	5	25	200		L. & N.
54 Pick	3' 6"	St. Creek	Drift	4,345	3	35	60		L. & N.
55				3,848	15	67	14	1	L. & N.
56 Electric	4'	Mason	Drift	139,144	90	100	197	1	L. & N.
57 Electric	3' 2"	St. Creek	Drift	22,999	10	35	147		L. & N.
58 Electric	3' 2"	St. Creek	Drift	27,339	6	60	99		L. & N.
59 Electric	3' 2"	Excelsior	Drift	21,387	20	55	159	1	L. & N.
60 Electric	3' 2"	St. Creek	Drift	19,872	8	65	109		L. & N.
61 Electric	3' 9"	Lower Hignite	Drift						L. & N.
62 Pick	3' 9"	St. Creek	Drift						L. & N.
63 Air	2' 6"	St. Creek	Drift	9,465	15	40	55		L. & N.
64 Electric	3' 4"	St. Creek	Drift	167,630	30	175	241		L. & N.

DISTRICT No. 3, J. A. LEWIS, INSPECTOR, LEXINGTON, KY.

ANNUAL REPORT OF THE

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Ashland Iron & Mining Co.	Rush	Boyd	Sam Sooton	Andy Alexander
2	Big Run Coal Co.	Princess	Boyd	G. W. McNeal	C. H. Jouchins
3	Frank H. Clere Coal Co.	Coalton	Boyd	D. R. Clere	
4	Princess Coal Co.	Princess	Boyd	C. V. Bartels	
5	Thomas Coal Co.	Ashland	Boyd		
6	Wm. Wurts Coal Co.	Ashland	Boyd	Wm. Wurts	
7	Clearfield Lumber Co.	Redwine	Morgan		J. H. Atkins
8	Charter Coal Co.	Redwine	Morgan	Arson Lowe	
9	Kentucky Block Cannel Coal Co.	Cannel City	Morgan		W. P. Stamper & Tom Davis
10	Lee Coal Co.	Clearfield	Morgan	Guy Snyder	J. H. Atkins
11	Premium Cannel Coal Co.	Lenox	Morgan	H. C. Cox	
12	Okey Meadows Elkhorn Coal Co.	Redwine	Morgan	Okey Meadows, Sr.	Okey Meadows, Jr.
13	Comargo Coal Co.	Lacoleman	McCreary	B. C. Jones	W. A. Robinson
14	Barron Fork Coal Co.	Barron Fork	McCreary	B. C. Efin	J. B. Leveridge
15	J. D. Erskine Coal Co.	Parkerslake	McCreary	J. D. Erskine	
16	Paint Cliff Mining Co.	Paint Cliff	McCreary	Ivan Livingston	T. S. Davis
17	Premier Coal Co.	Yamacraw	McCreary	Walter Proctor	A. E. Oakley
18	St. Michiel Coal Co.	Paint Cliff	McCreary	Ivan Livingston	
19	Stearns Coal & Lumber Co.	Stearns	McCreary	J. E. Butler	W. S. Tate
20	W. S. Tate Coal Co.	Indian Head	McCreary	W. S. Tate	Geo. Parks
21	Beattyville Coal Co.	Beattyville	Lee	G. W. Anderson	
22	Biggs Coal Co.	Banford	Lee	L. A. Shoemaker	
23	Goose Creek Coal Co.	London	Laurel		
24	J. R. McNeil Coal Co.	East Bernstadt	Laurel	L. N. Birk	Geo. Parks
25	Mountain Gem Coal Mining Co.	East Bernstadt	Laurel	R. D. Jones	
26	New Diamond Coal Co.	East Bernstadt	Laurel		
27	Estate of N. Thayer	Partlow	Carter		
28	Gen'l Refractory Co.	Hitchens	Carter	Clayton S. Hitchens	
29	Harbison Walker Ref. Co.	Denton	Carter	S. E. Ruth	C. L. Reeves
30	Johns Run Coal Co.	Grayson	Carter	Geo. Fleming	Hobart Holbrook

No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
65	Electric	5'	Jellico	Drift	60,990	15	75	191		L. & N.
66	Electric	3'	St. Creek	Drift	42,775	10	40	155		L. & N.
67	Pick	4'	Turner	Drift	6,439	7	8	222		L. & N.
68	Electric	3'	Raven	Drift	12,804	8	55	109		Not Co-operating
70	Pick	3'	Turner	Drift	8,556	20	39	23		L. & N.
71	Electric	4'	Turner	Drift	39,476	15	115	102	1	Not Co-operating
72	Pick	4'	Turner	Drift						L. & N.
					1,790,504	1,022	3,653	94	10	Not Co-operating

DISTRICT No. 5, LACEY LAXTON, INSPECTOR, HARLAN, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Crane Creek Coal Co.	Colmar	Bel	R. L. Mattingly	Eugene Steel
2	C. C. Coal Co.	Callaway	Bel	W. W. Wadell	
3	Kentucky Cardinal Coal Co.	Cardinal	Bel	T. Y. Crawford	S. B. Surgene
4	Laymond Callaway Coal Co.	Hulen	Bel	E. A. Smuthers	J. A. Stewart
5	Long Ridge Coal Co.	Hulen	Bel	W. O. Pollard	J. M. Sparks
6	Lewis Coal Co.	Pineville	Bel	Molton Lewis	C. J. Smith
7	Morgan Coal Co.	Calvin	Bel		
8	Mathel Coal Co.	Callaway	Bel	J. C. Haskins	Dan Robinson
9	Song Ridge Coal Co.	Hulen	Bel		
10	Southern Mining Co.	Balkin	Bel	T. E. Gilbert & O. L. Flanery	
11	A. N. Nelson Coal Co.	Molus	Harlan		
12	Block Coal Co.	Evarts	Harlan	J. D. Yarkborough	McKinley York
13	Banner Fork Coal Co.	Kentonia	Harlan	C. S. Keen	A. J. Hayden
14	Black Mountain Coal Corp.	Kenvir	Harlan	A. W. Miller	W. M. Corkery
15	Crown By-Product Coal Co.	Chevrolet	Harlan	J. P. Dupuy	J. T. Wilson
16	Cornett-Lewis Coal Co.	High Splint	Harlan	R. E. Lawayn	Bill Dean
17	Clover Fork Coal Co.	Kitts	Harlan	Ed. Whitfield	E. T. Baker
18	Creech Coal Co.	Twila	Harlan	Hiram Silvers	James Sparks
19	Cook & Sharp Coal Co.	Le-Junior	Harlan	W. N. Cook	J. H. Hudson
20	Darby Harlan Coal Co.	Evarts	Harlan	N. B. Smith	T. M. Smiddy
21	Ellis Knob Coal Co.	Harlan	Harlan	J. M. Pope	W. M. Stewart
22	Evarts Coal Co.	Evarts	Harlan	Fred Smith	H. H. Barton
23	Golden Ash Coal Co.	Kitts	Harlan	W. A. Ellison	Fred Helton
24	Harlan Fuel Co.	Harlan	Harlan	E. V. Guthrie	P. Q. Parson
25	Harlan Co-operative Coal Co.	Evarts	Harlan	W. S. Wood	W. C. Gunn
26	Harlan Kellioka Coal Co.	Evarts	Harlan		
27	Harlan Collieries Co.	Ages	Harlan	S. A. Driver	M. G. Fain
28	Harlan Superior Coal Co.	Harlan	Harlan	Chas. Owens	B. D. Walbright
29	Harlan Liberty Coal Co.	Evarts	Harlan	Lewis Manning	Jno. Manning
30	High Splint Coal Co.	High Splint	Harlan	I. C. Dalymple	H. H. Duncan
31	Harlan Gas Coal Co.	Harlan	Harlan	S. A. Duglas	Grover Hodge

STATE DEPARTMENT OF MINES OF KENTUCKY

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No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
1	Pick	3' 6"	Mason	Drift	76,917	12	90	220		Not Co-operating
2	Pick	4'	Mason	Drift					2	
3	Electric	4'	Harlan	Drift	45,751	25	60	169		
4	Pick	2' 9"	Mason	Drift	15,350	7	35	200		
5	Pick	3' 4"	Mason	Drift	11,981	4	30	82		
6	Pick	3'	Mason	Drift	240	2	4	2		Not Co-operating
7										
8	Electric	5' 7"	Harlan	Drift	2,200	6	28	16		Not Co-operating
9										
10	Electric	3' 6"	Mason	Drift	263,766	50	158	158		
11					52	4	12	16		L. & N.
12	Pick	4'	Harlan	Drift	1,450	2	6	81		L. & N.
13	Electric	6'	Wallins	Drift	373,576	65	165	217		L. & N.
14	Electric	3' 6"	Darby	Drift	324,780	100	300	227	1	L. & N.
15	Electric	4' 5"	Harlan	Drift	206,493	45	130	295		L. & N.
16	Electric	5'	High Splint	Drift		6	40	26		L. & N.
17	Electric	4' 6"	Harlan	Drift	132,047	30	75	163		L. & N.
18	Electric	6'	Wallins	Drift	285,948	75	125	174		L. & N.
19	Electric	4'	Harlan	Drift	24,064	15	30	134		L. & N.
20	Electric	5'	Harlan	Drift	56		6	5		L. & N.
21	Pick	5'	Harlan	Drift						Not Co-operating
22	Electric	4' 6"	Harlan	Drift	2,785	4	25	14		Not Co-operating
23	Electric	3' 8"	Harlan	Drift	77,006	25	75	173	1	L. & N.
24	Electric	3' 10"	Harlan	Drift	56,473	10	40	226		L. & N.
25	Electric	3' 6"	C	Drift	20,060	8	30	175		L. & N.
26	Electric	4' 4"	Kellioka	Drift	198	4	38	10		L. & N.
27	Electric	4'	Harlan	Drift	116,567	20	100	135		L. & N.
28	Pick	4' 8"	Harlan	Drift	7,099	8	14	129		L. & N.
29	Electric	6'	Harlan	Drift						Not Co-operating
30	Electric	4' 4"	High Splint	Drift	133,989	50	255	100		L. & N.
31	Electric	6'	Harlan	Drift	93,454	22	110	176		L. & N.

DISTRICT No. 5—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	Harlan Coal & Coke Co.	High Splint	Harlan	W. R. Grant	Mose Gatliff
33	Harlan Cumberland Coal Min. Co.	Totz	Harlan	C. J. Bartels	
34	Harlan Coal Co.	Path Fork	Harlan		
35	J. L. Smith Coal Co.	Kildav	Harlan	J. P. Barton	
36	Harlan Fox Coal Co.	Black Joe	Harlan		
37	Kentucky King Coal Co.	Wallins Creek	Harlan	W. M. Anderson	Robe York
38	Kitts Creek Coal Co.	Harlan	Harlan	Earl Jameson	John Sizemore
39	Kentucky Harlan Coal Co.	Harlan	Harlan	S. A. Duglas	Enoch Shelton
40	King Harlan Coal Co.	Kildav	Harlan	A. R. Tinsley	George Luke
41	Lenarue Coal Co.	Lenarue	Harlan	F. F. Cawood	W. M. Silvers
42	Looney Creek Coal Co.	PeeVee	Harlan	T. J. Brennon	E. H. Gates
43	Meleroft Coal Co.	Coxton	Harlan	T. M. Maderis	M. D. Nideffer
44	Mary Helen Coal Corp.	Coolgood	Harlan	S. J. Dickenson	C. C. New
45	Molus Coal Co.	Molus	Harlan	V. W. Baker	A. T. Laugham
46	Model Coal Co.	Le-Junior	Harlan	J. M. Percifield	J. W. Williams
47	McComb Coal Co.	Elcomb	Harlan	J. Q. Angel	W. T. Angel
48	Miller & Sharp Coal Co.	Le-Junior	Harlan		
49	Perkins Harlan Coal Co.	Harlan	Harlan	W. J. Harmon	E. E. Strunk
50	P. V. & K. Coal Co.	Le-Junior	Harlan	J. S. Robison	W. B. Green
51	Riverside Coal & Mining Co.	White Star	Harlan		
52	R. C. Tway Coal Co.	Harlan	Harlan	T. N. Gibson	H. R. Colatt
53	Rex Coal Co.	Kitts	Harlan	C. V. Bennett	S. R. York
54	Standard Harlan Coal Co.	Everts	Harlan	J. P. Alrod	John Reed
55	Shawnee Gas Coal Co.	Harlan	Harlan	Herbert Smith	Pat Fannin
56	Stonega Coke & Coal Co.	Keokee	Harlan		
57	Sugar Camp Mining Co.	Everts	Harlan	Walter Kelly	G. C. Cornical
58	Superior Harlan Coal Co.	Everts	Harlan		
59	T. C. Burger Coal Mining Co.	Le-Junior	Harlan	R. F. Williams	
60	U. S. Coal & Coke Co.	Lynch Mines	Harlan	E. V. Albert	
61	Virginia Coal & Coke Co.	Leona Mines, Va.	Harlan		
62	Vinson Kolb Coal Co.	Cargo	Harlan		
63	Verda Harlan Coal Co.	Verda	Harlan		
64	Wilson-Burger Coal Corp. Inc.	Gray Knob	Harlan	S. V. Preston	E. L. James

STATE DEPARTMENT OF MINES OF KENTUCKY

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No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
32	Electric	4' 4"	Harlan	Drift	64,259	25	50	177		L. & N.
33	Electric	4'	Harlan	Drift	16,024	20	35	200		L. & N.
34					2,548	12	21	46		L. & N.
35	Electric	4'	Harlan	Drift	34,530	10	50	115		L. & N.
36					55,626	18	75	161		L. & N.
37	Electric	6'	Wallins	Drift	140,789	30	110	185		L. & N.
38	Pick	4' 4"	Harlan	Drift	8,996	3	10	140		L. & N.
39	Electric	4'	Harlan	Drift	23,000	9	25	100		L. & N.
40	Electric	4'	Harlan	Drift	166,118	18	150	270		L. & N.
41	Electric	3'	Harlan	Drift	14,327	5	65	38		L. & N.
42	Electric	3' 8"	Harlan	Drift	38,758	14	55	153		Not Co-operating
43	Electric	4'	Harlan	Drift	290,737	40	255	294	1	L. & N.
44	Electric	4' 6"	Harlan	Drift	163,101	50	175	175	2	L. & N.
45	Pick	3' 6"	Harlan	Drift	35,144	20	50	80		L. & N.
46	Electric	4'	Harlan	Drift	23,496	10	40	65		L. & N.
47	Electric	4'	Harlan	Drift	25,600	30	55	62		L. & N.
48					1,990		14	6		L. & N.
49	Electric	3'	Harlan	Drift	36,119	20	30	270		L. & N.
50	Electric	4'	Harlan	Drift	32,376	5	50	128		L. & N.
51					171,572	35	170	246	1	L. & N.
52	Electric	4' 4"	Harlan	Drift	1,205	3	10	15		L. & N.
53	Electric	4' 6"	Harlan	Drift	65,658	10	45	146		L. & N.
54	Electric	3' 6"	Harlan	Drift	18,840	9	75	116		L. & N.
55	Electric	3' 4"	Harlan	Drift	998	5	25	5		L. & N.
56					48,874	15	60	155		L. & N.
57	Electric	5' 10"	Harlan	Drift	307	8	20	34		L. & N.
58					5,313	15	20	51		L. & N.
59	Electric	3' 9"	Harlan	Drift	66,664	8	55	176		L. & N.
60	Electric	5'	C	Drift	1,541,629	496	1,646	286	19	L. & N.
61					32,855	15	30	176		L. & N.
62					511	5	10	37		L. & N.
63	Electric	4'	Harlan	Drift	900	3	8	21		L. & N.
					137,199	35	150	211		L. & N.

DISTRICT No. 4—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	Bennetts Fork Coal Mining Co.	Boswarth	Bell	F. F. Sharp	Arthur Harris
33	Bailey Coal Co.	Blanch	Bell	C. C. Bailey	John Onkat
34	Bellman Coal Co.	Boswarth	Bell	H. J. Fallon	J. T. Spangler
35	Chenoca Coal Co.	Chenoca	Bell	H. C. Moss	S. H. Yeary
36	Congress Coal Mining Co.	Shamrock	Bell	C. R. Coleman	A. L. Wilson
37	Coleman Coal Mining Co.	Cary	Bell	L. W. Yeary	
38	Climax Coal Co.	Shamrock	Bell	J. D. Cane	E. E. Stearns
39	Cain Coal Co.	Cary	Bell	Lon Lewis	
40	Cub Bear Mining Co.	Fourmile	Bell		
41	Coal Creek Coal Co.	Ralston	Bell	M. D. Bell	J. C. Alanson
42	Conant Coal Co.	Pineville	Bell	G. M. Ramsey	L. Sanders
43	Crystal Coal Co.	Logmont	Bell	Frank Shelly	
44	Dixie Gem Coal Co.	Middlesboro	Bell	H. J. Fallon	
45	East Point Coal & Coke Co.	Boswarth	Bell	Roy Moss	
46	Federal Coal Co.	Cary	Bell		
47	Gruck Duff Coal Co.	Pineville	Bell	G. W. Gooch	W. M. Thompson
48	Gooch Coal Co.	Pineville	Bell		C. W. Kinney
49	Gravity Coal Co.	Boswarth	Bell	W. A. Roberts	Arthur Gent
50	Hignite Coal Mining Co.	Shamrock	Bell	F. F. McCoy	
51	J. B. Straight Creek Mining	Fourmile	Bell	E. H. Harris	S. C. Parker
52	Jaybee Jellico Coal Co.	Tinsley	Bell	T. C. Hughes	Bob Woolumn
53	Kentucky Collieries Co.	Pineville	Bell	J. E. Suttle	
54	Kentucky Straight Creek Coal	Pineville	Bell		
55	Long Branch Coal Co.	Kelos	Bell		
56	Log Mountain Coal Co.	Harrison	Bell	M. B. Shy	J. W. Jackson
57	Liberty Coal & Coke Co.	Straight Creek	Bell	R. R. Atkins	G. C. Clark
58	Landrum Coal Co.	Ariay	Bell	R. B. Winkler	Rice Griffen
59	Low Ash Mining Co.	Middlesboro	Bell	E. R. Short	C. F. Janeway
60	Indian Creek Coal Co.	Fourmile	Bell	J. W. Watson	Bob Ayers
61	Monarch Coal Co.	Middlesboro	Bell	W. M. Castelow	Chas. Ellison
62	New Straight Creek Mining Co.	Pineville	Bell	J. W. Charlton	R. B. Elliott
63	New Bell Jellico Coal Co.	Bell Jellico	Bell	P. M. Johnston	John Cox
64	Pioneer Coal Co.	Kettle Island	Bell	J. L. Frost	H. E. Grace

No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
32	Electric	3' 6"	Jack Rock	Drift	1,059	1	10	31		Not Co-operating
33	Pick	4'	St. Creek	Drift	43,458	10	80	183		L. & N.
34	Electric	4'	Turner	Drift	5,142	15	35	26		L. & N.
35					4,631	10	40	20		L. & N.
36	Pick	4'	St. Creek	Drift	27,413	12	50	169		L. & N.
37	Electric	3' 2"	Sterling	Drift	8,302	15	115	19	1	L. & N.
38	Electric	3' 6"	St. Creek	Drift	4,501	6	25	43		L. & N.
39	Pick	2' 6"	St. Creek	Drift	2,039	5	35	22		L. & N.
40	Pick	3' 8"	St. Creek	Drift						L. & N.
41	Pick	2' 6"	St. Creek	Drift	475					Not Co-operating
42	Electric	4' 6"	Poplar Lick	Drift	9,257	30	35	88	1	L. & N.
43	Pick	2' 4"	Jellico	Drift	4,531	2	15	73		Not Co-operating
44	Pick	4'	Winona	Drift	117,891	40	175	144		L. & N.
45	Pick	3' 9"	St. Creek	Drift						L. & N.
46	Electric									Not Co-operating
47										L. & N.
48	Pick	2' 9"	St. Creek	Drift	4,092	6	25	41		Not Co-operating
49	Pick			Drift	25	4	8	21		L. & N.
50	Electric	3' 8"	Poplar Lick	Drift	6,128	10	65	18		L. & N.
51	Electric	3' 2"	St. Creek	Drift	21,503	8	35	52		L. & N.
52	Electric	3' 6"	Dean	Drift	54,120	25	115	101		Not Co-operating
53	Pick	2' 6"	Wallens	Drift						L. & N.
54	Pick	3' 6"	St. Creek	Drift	15,892	5	25	200		L. & N.
55					4,345	3	35	60		L. & N.
56	Electric	4'	Mason	Drift	3,848	15	67	14	1	L. & N.
57	Electric	3' 2"	St. Creek	Drift	139,144	90	100	197	1	L. & N.
58	Electric	3' 2"	St. Creek	Drift	22,999	10	35	147		L. & N.
59	Electric	3' 2"	Excelsior	Drift	27,339	6	60	99		L. & N.
60	Electric	3' 2"	St. Creek	Drift	21,387	20	55	159	1	L. & N.
61	Electric	3' 9"	Lower Hignite	Drift	19,872	8	65	109		L. & N.
62	Pick	2' 6"	St. Creek	Drift						L. & N.
63	Air			Drift	9,465	15	40	55		L. & N.
64	Electric	3' 4"	St. Creek	Drift	167,630	30	175	241		L. & N.

DISTRICT No. 4—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
65	Pruden Coal & Coke Co.	Pruden, Tenn.	.....	W. L. Provins	.....
66	Roth Coal Co.	Arjay	Bell	J. R. Brodley	.....
67	S. & S. Coal Co.	Middlesboro	Bell	H. C. Smith	.....
68	Turner Coal Co.	Middlesboro	Bell	J. S. Buythan	.....
69	Utility Gas Coal Co.	Pineville	Bell	.....	Nathen Centers
70	Lower Hignite Coal Co.	Logmont	Bell	W. E. Gunn	J. F. York
71	Winona Coal & Coke Co.	Boswarth	Bell	H. J. Fallon	H. Brauscan
72	Yellow Hill Coal Mining Co.	Middlesboro	Bell	Don Burgham	Mall Evans

No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
65	Electric	5'	Jellico	Drift	60,990	15	75	191		L. & N.
66	Electric	3'	St. Creek	Drift	42,775	10	40	153		L. & N.
67	Pick	4' 4"	Turner	Drift	6,439	7	8	222		L. & N.
68										Not Co-operating
69	Electric	3'	Raven	Drift	12,804	8	55	109		L. & N.
70	Pick	3' 6"		Drift	8,556	20	39	23		Not Co-operating
71	Electric	4'	Turner	Drift	39,476	15	115	102	1	L. & N.
72	Pick	4'	Turner	Drift						Not Co-operating
					1,790,504	1,022	3,653	94	10	

DISTRICT No. 5, LACEY LAXTON, INSPECTOR, HARLAN, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Grane Creek Coal Co.	Colmar	Bell	R. L. Mattingly	Eugene Steel
2	C. C. Coal Co.	Callaway	Bell	W. W. Wadell	S. B. Surgene
3	Kentucky Cardinal Coal Co.	Cardinal	Bell	T. Y. Crawford	J. A. Stewart
4	Laymond Callaway Coal Co.	Hulen	Bell	E. A. Smuthers	J. M. Sparks
5	Long Ridge Coal Co.	Hulen	Bell	W. O. Pollard	C. J. Smith
6	Lewis Coal Co.	Pineville	Bell	Molton Lewis	
7	Morgan Coal Co.	Calvin	Bell		
8	Mathel Coal Co.	Callaway	Bell	J. C. Haskins	Dan Robinson
9	Song Ridge Coal Co.	Hulen	Bell		
10	Southern Mining Co.	Balkin	Bell	T. E. Gilbert & O. L. Flanery	
11	A. N. Nelson Coal Co.	Molus	Harlan		
12	Block Coal Co.	Evarts	Harlan	J. D. Yarkborough	McKinley York
13	Banner Fork Coal Co.	Kentonia	Harlan	C. S. Keen	A. J. Hayden
14	Black Mountain Coal Corp.	Kenvir	Harlan	A. W. Miller	W. M. Corkery
15	Crown By-Product Coal Co.	Chevrolet	Harlan	J. P. Dupuy	J. T. Wilson
16	Cornett-Lewis Coal Co.	High Splint	Harlan	R. E. Lawayn	Bill Dean
17	Clover Fork Coal Co.	Kitts	Harlan	Ed. Whitfield	E. T. Baker
18	Crech Coal Co.	Twila	Harlan	Hiram Silvers	James Sparks
19	Cook & Sharp Coal Co.	Le-Junior	Harlan	W. N. Cook	J. H. Hudson
20	Darby Harlan Coal Co.	Evarts	Harlan	N. B. Smith	T. M. Smiddy
21	Ellis Knob Coal Co.	Harlan	Harlan	J. M. Pope	W. M. Stewart
22	Evarts Coal Co.	Evarts	Harlan	Fred Smith	H. H. Barton
23	Golden Ash Coal Co.	Kitts	Harlan	W. A. Ellison	Fred Felton
24	Harlan Fuel Co.	Harlan	Harlan	E. V. Guthrie	P. Q. Parson
25	Harlan Co-operative Coal Co.	Evarts	Harlan	W. S. Wood	W. C. Gunn
26	Harlan Kellioka Coal Co.	Evarts	Harlan		
27	Harlan Collieries Co.	Ages	Harlan	S. A. Driver	M. G. Fain
28	Harlan Superior Coal Co.	Harlan	Harlan	Chas. Owens	B. D. Walbright
29	Harlan Liberty Coal Co.	Evarts	Harlan	Lewis Manning	Jno. Manning
30	High Splint Coal Co.	High Splint	Harlan	I. C. Dalymple	H. H. Duncan
31	Harlan Gas Coal Co.	Harlan	Harlan	S. A. Duglas	Grover Hodge

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No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
1	Pick	3' 6"	Mason	Drift	76,917	12	90	220		Not Co-operating
2	Pick	4'	Mason	Drift					2	
3	Electric	4'	Harlan	Drift	45,751	25	60	169		
4	Pick	2'	Mason	Drift	15,350	7	35	200		
5	Pick	3' 4"	Mason	Drift	11,981	4	30	82		
6	Pick	3'	Mason	Drift	240	2	4	2		Not Co-operating
7										
8	Electric	5' 7"	Harlan	Drift	2,200	6	28	16		Not Co-operating
9										
10	Electric	3' 6"	Mason	Drift	263,766	50	158	158		Not Co-operating
11					52	4	12	16		
12	Pick	4'	Harlan	Drift	1,450	2	6	81		L. & N.
13	Electric	6'	Wallins	Drift	373,576	65	165	217		L. & N.
14	Electric	3' 6"	Darby	Drift	324,780	100	300	227	1	L. & N.
15	Electric	4' 5"	Harlan	Drift	206,493	45	130	295		L. & N.
16	Electric	5'	High Splint	Drift		6	40	26		L. & N.
17	Electric	4' 6"	Harlan	Drift	132,047	30	75	163		L. & N.
18	Electric	6'	Wallins	Drift	285,948	75	125	174		L. & N.
19	Electric	4'	Harlan	Drift	24,064	15	30	134		L. & N.
20	Electric	5'	Harlan	Drift	56		6	5		L. & N.
21	Pick	5'	Harlan	Drift						Not Co-operating
22	Electric	4' 6"	Harlan	Drift	2,785	4	25	14		Not Co-operating
23	Electric	4' 8"	Harlan	Drift	77,006	25	75	173	1	L. & N.
24	Electric	3' 10"	Harlan	Drift	56,473	10	40	226		L. & N.
25	Electric	3' 6"	C	Drift	20,060	8	30	175		L. & N.
26	Electric	4' 4"	Kellioka	Drift	198	4	88	10		L. & N.
27	Electric	4' 4"	Harlan	Drift	116,567	20	100	135		L. & N.
28	Pick	4' 8"	Harlan	Drift	7,099	8	14	129		L. & N.
29	Electric	6'	Harlan	Drift						Not Co-operating
30	Electric	4' 4"	High Splint	Drift	133,989	50	255	100		L. & N.
31	Electric	6'	Harlan	Drift	93,454	22	110	176		L. & N.

DISTRICT No. 5—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	Harlan Coal & Coke Co.	High Splint	Harlan	W. R. Grant	Mose Gatliff
33	Harlan Cumberland Coal Min. Co.	Totz	Harlan	C. J. Bartels	
34	Harlan Coal Co.	Path Fork	Harlan		
35	J. L. Smith Coal Co.	Kilday	Harlan	J. P. Barton	
36	Harlan Fox Coal Co.	Black Joe	Harlan		
37	Kentucky King Coal Co.	Wallins Creek	Harlan	W. M. Anderson	Robe York
38	Kitts Creek Coal Co.	Harlan	Harlan	Earl Jameson	John Sizemore
39	Kentucky Harlan Coal Co.	Harlan	Harlan	S. A. Dugas	Enoch Shelton
40	King Harlan Coal Co.	Kilday	Harlan	A. R. Tinsley	George Luke
41	Lenarue Coal Co.	Lenarue	Harlan	F. F. Cawood	W. M. Silvers
42	Looney Creek Coal Co.	PeeVee	Harlan	T. J. Brennan	E. H. Gates
43	Meleroft Coal Co.	Coxton	Harlan	T. M. Maderis	M. D. Nideffer
44	Mary Helen Coal Corp.	Coolgood	Harlan	S. J. Dickenson	C. C. New
45	Molus Coal Co.	Molus	Harlan	V. W. Baker	A. T. Laugham
46	Model Coal Co.	Le-Junior	Harlan	J. M. Percifield	J. W. Williams
47	McComb Coal Co.	Elcomb	Harlan	J. Q. Angel	W. T. Angel
48	Miller & Sharp Coal Co.	Le-Junior	Harlan		
49	Perkins Harlan Coal Co.	Harlan	Harlan	W. J. Harmon	E. E. Strunk
50	P. V. & K. Coal Co.	Le-Junior	Harlan	J. S. Robison	W. B. Green
51	Riverside Coal & Mining Co.	White Star	Harlan		
52	R. C. Tway Coal Co.	Harlan	Harlan	T. N. Gibson	H. R. Colatt
53	Rex Coal Co.	Kitts	Harlan	C. V. Bennett	S. R. York
54	Standard Harlan Coal Co.	Everts	Harlan	J. P. Alrod	John Reed
55	Shawnee Gas Coal Co.	Harlan	Harlan	Herbert Smith	Pat Fannin
56	Stonaga Coke & Coal Co.	Keokee	Harlan		
57	Sugar Camp Mining Co.	Everts	Harlan	Walter Kelly	G. C. Cornical
58	Superior Harlan Coal Co.	Everts	Harlan		
59	T. C. Burger Coal Mining Co.	Le-Junior	Harlan	R. F. Williams	
60	U. S. Coal & Coke Co.	Lynch Mines	Harlan	E. V. Albert	
61	Virginia Coal & Coke Co.	Leona Mines, Va.	Harlan		
62	Vinson Kolb Coal Co.	Cargo	Harlan		
63	Verda Harlan Coal Co.	Verda	Harlan		
64	Wilson-Burger Coal Corp. Inc.	Gray Knob	Harlan	S. V. Preston	E. L. James

No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
32	Electric	4' 4"	Harlan	Drift	64,259	25	50	177		L. & N.
33	Electric	4'	Harlan	Drift	16,024	20	35	200		L. & N.
34					2,548	12	21	46		L. & N.
35	Electric	4'	Harlan	Drift	34,530	10	50	115		L. & N.
36					55,626	18	75	161		L. & N.
37	Electric	6'	Wallins	Drift	140,789	30	110	185		L. & N.
38	Pick	4' 4"	Harlan	Drift	8,996	3	10	140		L. & N.
39	Electric	4'	Harlan	Drift	23,000	9	25	100		L. & N.
40	Electric	4'	Harlan	Drift	166,118	18	150	270		L. & N.
41	Electric	3'	Harlan	Drift	14,327	5	65	38		L. & N.
42	Electric	3' 8"	Harlan	Drift	38,758	14	55	153		Not Co-operating
43	Electric	4'	Harlan	Drift	290,737	40	255	294	1	L. & N.
44	Electric	4'	Harlan	Drift	163,101	50	175	175	2	L. & N.
45	Pick	3' 6"	Harlan	Drift	35,144	20	50	80		L. & N.
46	Electric	4'	Harlan	Drift	23,496	10	40	65		L. & N.
47	Electric	4'	Harlan	Drift	25,600	30	55	62		L. & N.
48					1,990		14	6		L. & N.
49	Electric	3'	Harlan	Drift	36,119	20	30	270		L. & N.
50	Electric	4'	Harlan	Drift	32,376	5	50	128		L. & N.
51					171,572	35	170	246	1	L. & N.
52	Electric	4' 4"	Harlan	Drift	1,205	3	10	15		L. & N.
53	Electric	4' 6"	Harlan	Drift	65,658	10	45	146		L. & N.
54	Electric	3' 6"	Harlan	Drift	18,840	9	75	116		L. & N.
55	Electric	3' 4"	Harlan	Drift	998	5	25	5		L. & N.
56					48,874	15	60	155		L. & N.
57	Electric	5' 10"	Harlan	Drift	307	8	20	34		L. & N.
58					5,313	15	20	51		L. & N.
59	Electric	3' 9"	Harlan	Drift	66,664	8	55	176		L. & N.
60	Electric	5'	C	Drift	1,541,629	496	1,646	286	19	L. & N.
61					32,855	15	30	176		L. & N.
62					511	5	10	37		L. & N.
63					900	3	8	21		L. & N.
64	Electric	4'	Harlan	Drift	137,199	35	150	211		L. & N.

DISTRICT No. 5—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
65	Wallins Creek Collieries Co.....	Harlan	Harlan	J W. Easley	Joe McDowell
66	W. D. Boyer Trustee & Co.....	Verda	Harlan	O. J. Warneke	C. W. McCarty
67	White Star Coal Co.....	White Star	Harlan	Sol Booz	G. L. Brown
68	Wisconsin Steel Coal Co.....	Benham	Harlan	R. A. Walters	T. H. Luke

No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
65	Electric	4'	Harlan	Drift	406,444	70	200	244	2	L. & N.
66	Electric	4'	Harlan	Drift	159,256	30	200	250	1	L. & N.
67	Electric	6'	Wallins	Drift	288,446	45	225	227		L. & N.
68	Electric	5'	C	Drift	820,275	275	650	265	3	L. & N.
					7,212,686	2,007	7,027	115	33	

DISTRICT No. 6, H. C. FAULKNER, INSPECTOR, HAZARD, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Apex Coal Co.	Millstone	Letcher	T. F. Brooks	M. E. Thompson
2	Amburgy Coal Co.	Dalva	Letcher	J. T. Morgan	F. M. Davis
3	Acme By-Product Coal Co.	Fleming	Letcher	T. F. Brooks	John Saulsberry
4	Big Four Coal Co.	Whitesburg	Letcher	Geo. Criscillis	
5	Blackwood Coal & Coke Co.	Pardee, Va.	Letcher		
6	Blackley Coal Corp.	Blackley	Letcher	H. E. Taylor	Frank Sellers
7	Cowan Creek Coal Co.	Ice	Letcher	J. T. Darlington	R. S. York
8	Consolidation Coal Co.	Jenkins	Letcher	P. M. Connor	
9	Consolidated Fuel Co.	Dalva	Letcher	Geo. Symons	
10	Dudley Coal Co.	David	Letcher		
11	Elkhorn Junior Coal Co.	Millstone	Letcher	Ed. Cockburn	
12	Elkhorn Hazard Coal Co.	Whitesburg	Letcher		
13	Elkhorn Coal Co.	Mater	Letcher	D. B. Farris	
14	Elkhorn Coal Corp.	Fleming	Letcher		
15	Elk Creek Coal Co.	Blackley	Letcher	John Burns	
16	Elkhorn Collieries Corp.	Sergeant	Letcher	A. L. Bastin	Henry Tackett
17	Elkhorn & Jellico Coal Co.	Whitesburg	Letcher	P. E. Marlow	Luther Cambell
18	Huntington By-Product Coal Co.	Burdine	Letcher		
19	Imperial Elkhorn Coal Co.	Sergeant	Letcher	A. J. Loverly	John Rockwell
20	Logan Elkhorn Coal Corp.	Fleming	Letcher	W. S. Peters	A. P. Smith
21	Howard-Newland Coal Co.	Blackley	Letcher		
22	Marian Coal Co.	Blackley	Letcher	G. R. Wayatt	Geo. Mayicott
23	May-King Coal Co.	May King	Letcher	Alex Taylor	
24	Rockhouse Coal Co.	Blackley	Letcher	John T. Boring	L. G. Turnyere
25	South East Coal Co.	Seco	Letcher	Henry Pfening	
26	Ulvah Coal Co.	Ulvah	Letcher	F. M. Thompkins	
27	Whitesburg Coal Co.	Whitco	Letcher	J. H. Hall	N. L. Mathews
28	Algoma Block Coal Co.	Lothair	Perry	R. F. Pritchard	D. K. Peck
29	Ashless Coal Corp.	Lothair	Perry	D. T. Mitchell	Walter Hank
30	Ajax Coal Co.	Hazard	Perry	G. P. Fitz	W. A. Whitaker
31	Blue Diamond Coal Co.	Blue Diamond	Perry	H. H. Braden	J. W. Faust

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No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
1	Pick	5' 6"	4	Drift	3,270	3	12	44	1	L. & N.
2	Electric		4	Drift	27,530	20	45	176		L. & N.
3	Pick	5' 6"	4	Drift	7,048	3	25	91		L. & N.
4	Electric	4'	Whitesburg	Drift	4,088	6	20	27		Interstate
5					83,742	75	90	60		L. & N.
6	Electric	4' 4"	4	Drift	11,724	5	20	109		L. & N.
7	Electric	5'	4	Drift	9,606	7	28	104		L. & N.
8	Electric	6' to 8'	Elkhorn	Drift	1,150,943	209	1,700	132	6	L. & N.
9	Electric	5'	4	Drift	111,235	65	165	130		L. & N.
10	Electric	4' 10"	4	Drift	92,583	17	85	195		L. & N.
11					76,084	5	50	228		L. & N.
12	Pick	5' 6"	4	Drift	3,392	6	31	19	1	L. & N.
13	Pick	4' 8"	4	Drift	35,547	15	45	166	1	L. & N.
14					283,844	71	450	72	1	L. & N.
15	Electric	4' 2"	4	Drift	12,591	15	30	90		L. & N.
16	Electric	6'	4	Drift	33,865	20	70	85		L. & N.
17	Electric	5' 4"	4	Drift	35,022	18	30	143		L. & N.
18					3,578	5	10	130		B. & O.
19	Electric	5' 6"	4	Drift	43,160	18	75	145		L. & N.
20	Pick	5'	4	Drift	20,612	26	30	92		Not Co-operating
21					61	2	6	9		L. & N.
22	Electric	5'	4	Drift	100,023	25	100	230	1	L. & N.
23	Electric	4' 2"	4	Drift	32,387	10	35	114		L. & N.
24	Electric	5' 2"	4	Drift	64,285	10	60	256	1	L. & N.
25	Electric	5'	4	Drift	199,800	36	155	115		L. & N.
26	Electric	4' 2"	4	Drift	12,385	35	35	209		L. & N.
27	Electric	3' 8"	4	Drift	47,565	12	40	190		L. & N.
28	Electric	5'	7	Drift	133,125	20	95	267	2	L. & N.
29	Electric	4' 2"	4	Drift	140,057	15	110	214		L. & N.
30	Electric	3' 4"	4	Drift	57,173	12	35	180		L. & N.
31	Electric	5' 6"	6	Drift	579,914	90	400	262	1	L. & N.

DISTRICT No. 6—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	Bolinger-Jones Coal Co.	Hazard	Perry	Frank Grims	
33	Black Joe Coal Co.	Butterfly	Perry	H. F. Rhodes	
34	Baker Coal Co.	Viper	Perry	B. W. Baker	Arthur Gay
35	Blue Jay Coal Co.	Hazard	Perry	A. J. Upton	Mat Jones
36	Columbus Mining Co.	Hazard	Perry		
37	Calwell-Blythe Coal Co.	Yerkes	Perry		
38	Crawford Coal Corp.	Bonnyman	Perry	W. L. Card	C. L. Walls
39	Carrs Fork Coal Co.	Allock	Perry	C. W. Mansfield	C. A. Limiter
40	Clinton Coal Co.	Jeff	Perry	Grant Beatty	
41	Defiance Coal Mining Co.	Hazard	Perry	C. E. Bell	
42	Darbs Fork Coal Co.	Hazard	Perry	Earnest Bray	
43	Diamond Block Coal Co.	Diablock	Perry	C. H. Bower	A. B. Matingly
44	Eden Coal Co.	Whitesburg	Perry		
45	East Kentucky Coal Co.	Fusonia	Perry	J. F. Phipps	
46	Four In One Coal Co.	Fusonia	Perry	R. E. Potter	L. C. Cambell
47	First Creek Mining Co.	Blue Diamond	Perry	J. L. Rogers	John Golbrit
48	Jno. P. Gorman Coal Co.	Diablock	Perry	C. L. Logan	W. M. Quisenberry
49	Happy Coal Co.	Happy	Perry	C. R. Lutterell	
50	Hardy-Burrougham Mining Co.	Hardburly	Perry	C. W. Snyder	
51	Hazard Blue Grass Coal Corp.	Hazard	Perry	L. G. Kauln & W. C. Hayslett	
52	Hombre Coal Co.	Hombre	Perry	R. T. Palmer	H. F. Brown
53	Hazard Jellico Coal Co.	Staeb	Perry	Edward Rigley	Walker Neem
54	Himyar Coal Co.	Domino	Perry	W. L. Carter	A. D. Cenoms
55	Hazard Block Coal Co.	Happy	Perry	Frank Foreman	
56	Indian Head Coal Co.	Hazard	Perry	William Heath	
57	Johnson-Hogg Coal Co.	Chavies	Perry	W. Adams	E. B. White
58	Kentucky River Coal & Mining Co.	Heiner	Perry	Zack Gross	L. E. Rhart
59	Kentucky Block Mining Co.	Blue Diamond	Perry	John Hayslett	C. M. Wilson
60	Kenmont Coal Co.	Jeff	Perry	J. L. Bishop	W. S. Smith
61	Commercial Coal Mining Co.	Ulvah	Perry	R. H. Glone	D. H. McGraw
62	Liberty Coal Co.	Bonnyman	Perry	W. H. Sienknecht	Titus Farwick
63	Ledford Coal Co.	Krypton	Perry		
64	Lots Creek Coal Co.	Bulan	Perry	W. C. Davis	J. C. Summer

	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
32	Electric	3'	4	Drift	46,815	20	35	119		Not Co-operating
33	Pick	5'	6	Drift	100	6	15	24	1	L. & N.
34	Electric	3'	4	Drift	4,236	4	18	69		L. & N.
35	Pick	3' 4"	4	Drift	251,045	57	170	150	2	L. & N.
36	Electric	3'	4	Drift	820	5	10	20		L. & N.
37					188,644	25	110	172		L. & N.
38	Electric	6' 8"	6	Drift	87,607	20	100	222		L. & N.
39	Electric	3' 6"	4	Drift	1,116	5	10	30		L. & N.
40	Pick	3' 3"	4	Drift	43,185	20	50	258		L. & N.
41	Electric	4' 6"	7	Drift	21,020	10	15	95		L. & N.
42	Pick	3'	4	Drift	51,872	15	45	73	1	L. & N.
43	Electric	4'	4	Drift						Not Co-operating
44					11,751	6	20	129		L. & N.
45	Pick	4'	4	Drift	1,099	6	20	8		L. & N.
46	Pick	5'	4	Drift	198,553	25	180	170		L. & N.
47	Electric	5'	6	Drift	51,854	20	70	96		L. & N.
48	Electric	4' 4"	4	Drift	3,919	5	10	141		L. & N.
49	Pick	4' 6"	4	Drift	409,243	210	260	265	4	L. & N.
50	Electric	4' 4"	7	Drift	230,063	55	240	200	1	L. & N.
51	Electric	5'	7	Drift	10,724	7	20	108		L. & N.
52	Electric	4'	4	Drift	180,045	20	150	172	1	L. & N.
53	Electric	4'	6	Drift	146,982	45	170	189		L. & N.
54	Electric	3' 4"	6	Drift	4,253	2	15	107		L. & N.
55	Pick	3'	4	Drift	31,506	5	25	200		L. & N.
56	Electric	3' 8"	4	Drift	67,850	30	115	186	1	L. & N.
57	Electric	4' 5"	4	Drift	112,918	28	150	239		L. & N.
58	Electric	4' 6"	6	Drift	83,842	8	60	157		L. & N.
59	Electric	5'	6	Drift	215,890	28	165	246	5	L. & N.
60	Electric	5' 6"	9	Drift	12,556	7	30	90		L. & N.
61	Electric	4' 6"	4	Drift	137,215	35	80	290		L. & N.
"	Electric	6'	6	Drift	1,918	5	9	40		L. & N.
					66,660	20	55	206		L. & N.
	Electric	4' 4"	7	Drift						L. & N.

DISTRICT No. 6—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
65	Lincoln Coal Co.....	Krypton	Perry	H. H. Givens	K. W. Smith
66	Midland Mining Co.....	Tribbey	Perry	W. L. Potter	E. L. Shepard
67	Maynard Coal Co.....	Lennutt	Perry	Luke Woods	
68	Mason Creek Coal Co.....	Viper	Perry	J. C. Kelly	C. Cambell
69	Mitchel Willis Coal Co.....	Typo	Perry		
70	Montgomery Creek Coal Co.....	Sasafras	Perry	G. W. Smith	T. H. Rogers
71	Muncy Coal & Mining Co.....	Krypton	Perry	Robt. Veach	
72	McIntosh Coal Co.....	Hazard	Perry		
73	No. 4 Superior Coal Co.....	Lennutt	Perry	Farmer Sizemore	
74	Old House Coal Co.....	Hazard	Perry	Joe Campbell	
75	Reliance Coal & Coke Co.....	Glomawr	Perry	W. M. Miller	J. T. Fitzpatrick
76	Scuddy Coal Co.....	Happy	Perry	Tom White	
77	South Eastern Kentucky Coal Co.....	Krypton	Perry		
78	Solar Coal Co.....	Yerkes	Perry	M. H. Blythe	J. H. Wilson
79	Storm King Coal Mining Co.....	Storm King	Perry	C. A. Beatty	B. C. Lohr
80	Trace Fork Mining Co.....	Bulan	Perry	C. R. Luttrell	John Powell
81	Walker Branch Fuel Co.....	Hazard	Perry	B. F. Clutts	J. W. Clutts
82	York Coal Corp.....	Krypton	Perry		
83	Knott Coal Corp.....	Sasafras	Knott	A. S. Davison	Henry Reedy
84	Wisconsin Coal Corp.....	Sasafras	Knott	T. P. Cord	Robt. Morgan

No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
65	Electric	3' 8"	7	Drift	64,853	20	75	145		L. & N.
66	Electric	4' 6"	7	Drift	118,119	25	110	213	1	L. & N.
67	Electric	4' 4"	7	Drift	181,117	40	210	247	2	L. & N.
68	Pick	3'	4	Drift	2,623	2	7	198		L. & N.
69					1,076	10	20	4		L. & N.
70	Pick	3' 2"	4	Drift	11,186	5	20	152		L. & N.
71	Pick	4' 4"	7	Drift	1,062	15	20	29		Not Co-operating
72										L. & N.
73	Electric	3' 4"	4	Drift	27,632	10	35	152		L. & N.
74	Pick	3'	4	Drift	490	2	8	8		L. & N.
75	Electric	4' 3"	7	Drift	109,876	25	95	216	2	L. & N.
76	Electric	4' 4"	4	Drift	10,616	10	20	146		L. & N.
77					280	3	10	6		L. & N.
78	Electric	5'	6	Drift	46,243	25	40	241	1	L. & N.
79	Electric	3' 6"	4	Drift	42,036	10	55	197		L. & N.
80	Electric	3' 2"	4	Drift	27,709	10	30	122		L. & N.
81	Electric	3'	4	Drift	3,800	9	40	20	1	L. & N.
82					990	6	20	16		L. & N.
83	Electric	7' 3"	9	Drift	10,238	10	25	96		L. & N.
84	Electric	6' 6"	9	Drift	23,785	6	20	129		L. & N.
					6,775,271	1,873	7,374	152	37	L. & N.

DISTRICT No. 7, M. L. WELLS, INSPECTOR, PAINTSVILLE, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Arzilla By-Product Coal Co.	Alphoretta	Floyd	W. H. Layne	Isaac Peters
2	Anchor Coal Co.	Prestonsburg	Floyd	J. C. Smith	Wm. Blackburn
3	Blue Beaver Coal Co.	Prestonsburg	Floyd	G. W. Rorer	S. E. Bingham
4	Blue Beaver Elkhorn Fuel Co.	Lygon	Floyd	H. E. Peters	G. E. Pugh
5	Big Elkhorn Coal Co.	Betsy Layne	Floyd	J. H. Davidson	Newt. Stevens
6	Bucks Branch Coal Co.	Smalley	Floyd	C. K. Holt	Press Hall
7	Beaver Creek Coal Co.	Garth	Floyd	J. A. Perry	James Ratliff
8	Beaver Elkhorn Coal Co.	Bevinsville	Floyd	J. N. Meek	John Branhan
9	Camp Branch Coal Co.	Ivel	Floyd	G. B. Hughes	John Dills
10	Cumberland Coal & Coke Co.	Melvin	Floyd	Sam Porter	H. E. Meritt
11	Cliff Coal Co.	Cliff	Floyd	S. E. Allen	W. I. Myers
12	Collins Mining Co.	Lackey	Floyd	W. H. Mathis	Earnest Logan
13	Colonial Coal & Coke Co.	Prestonsburg	Floyd	F. M. Addis	James Goodwin
14	Cow Creek Coal Co.	Emma	Floyd	H. P. Conway	P. Mann
15	Dwale Coal Co.	Allen	Floyd	J. W. Kilburn	J. H. Wilson
16	Elkhorn Star Coal Co.	Minnie	Floyd	J. W. Cockill	R. E. Whitten
17	Elkhorn Piney Coal & Mining Co.	Weeksbury	Floyd	G. C. Lee	J. G. Hinkle
18	Elkhorn Coal Corp.	Garrett	Floyd	C. O. Messenger	
19	Eureka Coal & Mining Co.	Prestonsburg	Floyd	J. D. Barney	
20	Elkhorn Block Coal Co.	Orkney	Floyd	H. C. Roskey	
21	Edgemont Fuel Co.	Minnie	Floyd	J. W. Shober	C. Volenski
22	Floyd Elkhorn Consolidated Colliery	Drift	Floyd	J. N. Meek	G. B. Meade
23	Glogora Coal Co.	Wayland	Floyd	H. L. Jones	Fred Mann
24	Goodin & Barney Coal Co.	Garrett	Floyd	H. H. Jayne	Wm. Daniels
25	Harold Coal & Coke Co.	Harold	Floyd	John Harmon	John Clatworthy
26	Jones Colliery Co.	Banner	Floyd		
27	Jacks Creek Coal Co.	Bevinsville	Floyd		
28	J. N. Meek Coal Co.	Drift	Floyd		
29	Kentucky Beaver Collieries Co.	Banner	Floyd		
30	Layne Coal Co.	Harold	Floyd		
31	Lorain Elkhorn Coal Co.	Melvin	Floyd		

No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
1	Pick	3'	Elkhorn 2	Drift						B. & O.
2	Electric	3' 6"	Elkhorn 1	Drift	42,000	15	55	211		C. & O.
3	Electric	3' 6"	Elkhorn 3	Drift	85,693	15	95	229		C. & O.
4	Electric	5' 3"	Elkhorn 3	Drift	49,490	15	65	154		C. & O.
5	Pick	3' 2"	Elkhorn 2	Drift						C. & O.
6	Electric	3' 4"	Elkhorn 1	Drift	37,135	25	65	130		B. & O.
7	Pick	3'	Elkhorn	Drift	1,231	10	25	18		B. & O.
8	Pick	3'	Elkhorn	Drift	3,240	6	12	78	1	C. & O.
9	Pick	3' 10"	Elkhorn	Drift	3,144	3	10	47		B. & O.
10	Pick	3' 4"	Elkhorn 1	Drift						B. & O.
11	Electric	4' 2"	Elkhorn 1	Drift						C. & O.
12	Pick	4'	Elkhorn 1	Drift						C. & O.
13	Pick	3' 4"	Elkhorn 2	Drift	4,199	7	16	50		Not Co-operating
14	Pick	3'	Elkhorn	Drift						C. & O.
15	Pick	3' 6"	Elkhorn	Drift	4,788	5	25	54		C. & O.
16	Electric	3' 9"	Elkhorn 3	Drift	97,383	18	250	78		B. & O.
17	Electric	3' 3"	Elkhorn	Drift	58,918	29	206	31	1	C. & O.
18	Electric	3' 8"	Millers Creek	Drift	17,500	10	30	147		C. & O.
19	Electric	3' 9"	Elkhorn 3	Drift	26,116	15	25	93		B. & O.
20	Electric	3' 4"	Elkhorn 1	Drift	7,521	5	20	105		B. & O.
21	Pick	3' 6"	Elkhorn 1 & 2	Drift	44,063	40	70	128	1	B. & O.
22	Pick	3' 4"	Elkhorn 2	Drift	56,115	20	75	192	1	C. & O.
23	Electric	3' 6"	Elkhorn 1	Drift	23,708	2	18	228		C. & O.
24	Pick	3' 6"	Elkhorn 1	Drift	29,259	15	50	151		C. & O.
25	Electric	3' 6"	Elkhorn	Drift	9,132	20	30	129		C. & O.
26	Electric	4'	Elkhorn 3	Drift	16,158	20	25	202		B. & O.
27	Electric	3' 4"	Elkhorn 2	Drift	13,545	5	24	128		B. & O.
28	Pick	4'	Elkhorn 4	Drift	8,860	15	20	96		C. & O.
29	Electric	3' 6"	Elkhorn	Drift	15,520	3	20	171		C. & O.
30	Pick	3' 2"	Elkhorn	Drift	2,013	5	20	40		B. & O.
31	Pick	3'	Elkhorn	Drift						B. & O.

DISTRICT No. 7—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	Long Branch Coal Co.	Drift	Floyd	.....	.....
33	Lackey Mining Co.	Lackey	Floyd	.....	Noah Hopper
34	Liberty Coal Co.	McDowell	Floyd	Chas. Ezuzian	C. A. Amburgy
35	McGuire Elkhorn Coal Co.	Smalley	Floyd	H. C. McGuire	Chas. Daniels
36	Miller Creek Kentucky Mining	Auxier	Floyd	T. B. Layne	L. Thompson
37	Martha Leslie Coal Co.	Emma	Floyd	S. E. Allen	.....
38	Millers Creek Excelsior Coal Co.	Auxier	Floyd	.....	.....
39	Malone Elkhorn Coal Co.	Allen	Floyd	P. H. Malona	.....
40	Middle Creek Coal Co.	Prestonsburg	Floyd	G. B. Archer	Lee Saloms
41	North East Coal Co.	Auxier	Floyd	John Laviers	J. C. Glancy
42	Northern Elkhorn Coal Co.	Prestonsburg	Floyd	S. E. Ferguson	Harry Cooley
43	Porter Mining Co.	Lackey	Floyd	.....	.....
44	Pike-Floyd Coal Co.	Betsy Layne	Floyd	E. H. Shriver	H. C. Delaney
45	Purity Cannel Coal Co.	Prestonsburg	Floyd	John Hunley	Ballard Harold
46	Prestonsburg Coal Co.	Prestonsburg	Floyd	J. W. Alley, Sr.	J. W. Alley, Jr.
47	Pivot Rock Coal Co.	Smalley	Floyd	R. V. Wohlford	G. C. Stephens
48	Regal Block Coal Co.	Ivel	Floyd	R. E. Ellis	J. W. Ross
49	Royal Elkhorn Coal Co.	McDowell	Floyd	C. E. Tibbols	Geo. Wilburn
50	Standard Elkhorn Coal Co.	Garrett	Floyd	J. O. Johnson	.....
51	St. Paul Coal Co.	Betsy Layne	Floyd	O. J. Williams	.....
52	Superior Elkhorn By-Product Co.	Bevinsville	Floyd	.....	.....
53	Stover Elkhorn Coal Co.	Lackey	Floyd	B. Robertson	.....
54	Samoset Fuel Co.	Smalley	Floyd	John Hunley	Dick McClure
55	Virginia Mining Co.	Allen	Floyd	.....	.....
56	Trivette Elkhorn Coal Co.	Smalley	Floyd	.....	.....
57	Winchester Coal Co.	Emma	Floyd	.....	.....
58	Waldon Coal Co.	Emma	Floyd	S. E. Allen	L. Thompson
59	Wells Elkhorn Coal Co.	Lackey	Floyd	J. B. Meek	F. H. Cooley
60	Zella Mining Co.	Lackey	Floyd	.....	.....
61	Ayers-Lang Coal Co.	Williamsport	Johnson	C. C. Ward	.....
62	Consolidation Coal Co.	Van Lear	Johnson	Wm. Harrison & J. A. Cook	.....
63	Clabner Elkhorn Coal Co.	Paintsville	Johnson
64	Denver Coal Co.	Denver	Johnson

STATE DEPARTMENT OF MINES OF KENTUCKY

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No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
32					6,042	18	46	46		Not Co-operating
33	Pick	3' 10"	Elkhorn 3	Drift	19,487	5	30	95		C. & O.
34	Pick	4'	Elkhorn 4	Drift	18,000	8	40	196		B. & O.
35	Pick	2'	Millers Creek	Drift						Not Co-operating
36	Pick	3' 8"	Elkhorn 2	Drift	591	2	6	40		C. & O.
37	Pick				2,158	6	18	25		C. & O.
38	Pick				2,048	3	7	59		C. & O.
39	Pick	3'	Elkhorn 4	Drift	885	5	17	11		Not Co-operating
40	Electric	4' 2"	Millers Creek	Drift	66,662	15	70	149		C. & O.
41	Electric	4'	Millers Creek	Drift	39,577	25	160	136		C. & O.
42	Pick	3'	Elkhorn 1 & 2	Drift						C. & O.
43					17,513	15	55	87		C. & O.
44	Pick	5'	Elkhorn 3	Drift	60,356	30	90	255	1	C. & O.
45	Electric	3' 6"	Elkhorn 2	Drift	13,709	20	25	165		C. & O.
46	Electric	3' 8"	Elkhorn 1	Drift	4,145	5	20	20		C. & O.
47	Pick	3' 4"	Elkhorn	Drift	13,767	5	12	141		C. & O.
48	Pick	3' 4"	Elkhorn 4	Drift	9,064	5	20	82		C. & O.
49	Pick	3' 10"	Upper Elkhorn	Drift	34,957	6	38	64		B. & O.
50	Electric	5'	Elkhorn 1	Drift	46,170	30	55	92		C. & O.
51	Electric	3' 10"	Elkhorn 1	Drift	11,200	5	18	67		C. & O.
52					7,707	5	20	74		C. & O.
53	Electric	4' 6"	Elkhorn 1	Drift	15,640	10	30	70		C. & O.
54										B. & O.
55	Pick	3'	Elkhorn 1	Drift						C. & O.
56					2,435	2	10	44		B. & O.
57					4,963	8	20	41		C. & O.
58	Pick	3' 8"	Elkhorn 2	Drift	1,514	2	10	27		C. & O.
59	Electric		Elkhorn	Drift	153,499	40	155	108		C. & O.
60					14,918	5	25	127		C. & O.
61	Pick	3' 2"	Cannel	Drift	7,601	15	20	112		C. & O.
62	Electric	3' 4"	Millers Creek	Drift	371,508	80	315	178	2	C. & O.
63										Not Co-operating
64	Pick	2' 8"	Millers Creek	Drift	.891	2	8	50		C. & O.

DISTRICT No. 7—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
65	Green Rock Coal Co.	Riceville	Johnson	S. K. Fider	
66	North East Coal Co.	Paintsville	Johnson	R. C. Thomas	H. D. Jones
67	Line Branch Coal Co.	Denver	Johnson		
68	Royal Collieries Co.	Offutt	Johnson	J. R. Johnson	James Blevins
69	Cub Mountain Coal & Coke Co.	Nolan, W. Va.	Martin		
70	Dempsey Coal Co.	Grey Eagle, W. Va.	Martin	T. A. Shewey	J. W. Lambert
71	Earlston Coal Co.	Kermit, W. Va.	Martin	J. D. McLaughlin	T. A. Peak
72	Flow Mining Co.	Kermit, W. Va.	Martin	J. B. Farquharson	P. W. Farquharson
73	Himler Coal Co.	Warfield	Martin	L. A. Bowes	A. L. Toshie

No.	Equipment	Height of Seam	Number of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
65	Pick	4'	Millers Creek	Drift	8,067	4	15	135		C. & O.
66	Electric	3' 3"	Millers Creek	Drift	282,402	85	465	113	1	C. & O.
67					150	2	9	11		C. & O.
68	Electric	3'	Millers Creek	Drift	42,728	18	140	94		C. & O.
69										Not Co-operating
70	Pick	4'	2 Gas	Shaft	2,262	3	8	48		N. & W.
71	Pick	4' 4"	2 Gas	Drift	7,390	5	10	107		N. & W.
72	Pick	5'	2 Gas	Drift	6,895	6	15	147		N. & W.
73	Electric	5' 6"	2 Gas	Drift	51,871	25	70	151	1	N. & W.
					2,006,503	840	3,278	86	9	

DISTRICT No. 8, GRANT PHILLIPS, INSPECTOR, PIKEVILLE, KY.

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
1	Alma Thacker Fuel Co.	McCarr	Pike	G. C. Deaton	H. G. Maynard
2	Alburn Coal Corp.	McCarr	Pike	W. H. Turner	Jake Growe
3	Borderland Coal Corp.	Borderland, W. Va.		J. L. Blevins	Chas. Thomas
4	Burnwell Coal & Coke Co.	Spriggs, W. Va.		James L. Thomas	Chas. Lusk
5	Big Shelby Coal Co.	Shelbina	Pike	Cleve Lusk	T. A. Clause
6	Buckfield Coal Co.	Yeager	Pike	A. B. Brock	Fred Hinkle
7	Blake Coal Mining Co.	Stone	Pike	H. H. Slatard	J. K. McGlue
8	Banner Pond Creek Coal Co.	Orinoco	Pike	D. J. Aresmisille	W. V. Varner
9	Bailey Fuel Co.	Toler	Pike	W. J. Murphy	H. W. Fife
10	Coal Run Mining Co.	Coal Run	Pike	H. H. Funk	Kelly Nowkins
11	Carry On Coal Co.	Toler	Pike	J. S. Leroy	Ballard Lowe
12	Christy-Sawards Mining Co.	Mossy Bottom	Pike	J. J. Christy	A. L. Goodson
13	Edgewater Coal Corp.	Lookout	Pike	J. A. Straughn	John H. Bowling
14	Elkhorn Gas Coal Corp.	Pikeville	Pike	Chas. W. Connor	James Hellery
15	Elkhorn & Shelby Creek Coal Co.	Esco	Pike	J. W. Smith	J. L. Fife
16	Elkhorn Seam Collieries Co.	Elkseam	Pike	H. H. Funk	C. S. Stoley
17	Furnice Coal & Mining Co.	Boldman	Pike	G. C. Wray	H. Bowling
18	Funk Coal Co.	Sutton	Pike	T. J. Phillips	John T. Jones
19	Fall Branch Coal Co.	Chattaroy, W. Va.	Pike	T. M. Smith	C. C. Carter
20	Ford-Elkhorn Mining Co.	Robinson Creek	Pike	A. L. Trimble	J. N. Woolance
21	Greenough Coal Co.	Hellier	Pike	G. A. Clutts	T. W. McCann
22	Jas. Hatcher Coal Co.	Big Shoal	Pike	C. K. Wagner	Jack Ronney
23	J. B. Elkhorn Coal Co.	Hildason	Pike	Hi Smith	George Bean
24	Kentucky Block Fuel Co.	Jonancy	Pike	R. C. Simpkins	Gwin Milam
25	Keyser Coal Co.	Keyser	Pike	H. L. Cox	Amil Childers
26	Kanawha Elkhorn Collieries Co.	Praise	Pike	Wm. Lackie	Tom Palmer
27	Kanawha Elkhorn Coal Corp.	Praise	Pike	J. T. Smith	
28	Kentucky Elkhorn By-Product Co.	Dorton	Pike	P. S. York	
29	Lekkie Collieries Co.	Aflex	Pike		
30	Manufactures Coal & Coke Co.	Hellier	Pike		
31	Mud Lick Coal Co.	Sharondale	Pike		

No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
1	Electric	4' 6"	Thacker	Drift	24,171	35	40	79	1	N. & W.
2	Electric	4' 2"	Thacker	Drift	100,000	40	80	247		N. & W.
3	Electric	3' 4"	Taylor	Drift	97,805	70	150	125		N. & W.
4	Electric	4' 10"	Pond Creek	Drift	23,003	9	50	147		N. & W.
5	Pick	4' 2"	Upper Elkhorn	Drift	2,386	6	38	27		C. & O.
6	Pick	4' 4"	Upper Elkhorn	Drift	13,964	8	35	189		B. & O.
7	Pick	5'	Pond Creek	Drift	30,289	8	30	216		N. & W.
8	Pick	4' 6"	Pond Creek	Drift	12,864	1	10	136		N. & W.
9	Electric	3' 4"	Pond Creek	Drift	92,304	20	90	149		N. & W.
10	Pick	4' 6"	Upper Elkhorn	Drift	250	2	9	7		C. & O.
11	Electric	4' 4"	Pond Creek	Drift	2,362	23	14	14		Not Co-operating
12	Pick	4' 5'	Lower Elkhorn	Drift	416	5	9	26		C. & O.
13	Electric	4'	Lower Elkhorn	Drift	208,008	90	275	61		C. & O.
14				Drift						C. & O.
15	Electric	5'	Upper Elkhorn	Drift	23,742	20	85	36		
16		6"	Lower Elkhorn	Drift	34,250	15	40	73		
17	Electric	6'	Lower Elkhorn	Drift	15,549	8	35	113		C. & O.
18	Pick	5' 6"	Elkhorn	Drift	6,000	5	12	56		
19	Electric	4' 4"	Thacker	Drift	18,874	5	20	188		N. & W.
20	Electric	4'	Upper Elkhorn	Drift	62,800	35	65	200		B. & O.
21	Electric	4'	Elkhorn	Drift	23,560	8	35	67		C. & O.
22	Electric	5' 6"	Elkhorn 1 & 2	Drift	16,388	18	20	34		
23	Electric	4' 6"	Upper Elkhorn	Drift	71,238	20	95	156		
24	Electric	4'	Upper Elkhorn	Drift	34,705	10	65	94		N. & W.
25	Electric	6'	Upper Elkhorn	Drift	50,522	15	35	167		C. & O.
26	Pick	4' 4"	Upper Elkhorn	Drift	17,230	28	115	44		C. & O.
27				Drift	13,495	8	22	62	1	C. & O.
28	Electric	4'	Elkhorn	Drift	16,538	20	50	46		B. & O.
29	Electric	4'	Pond Creek	Drift	138,631	15	110	181	1	N. & W.
30	Electric	3' 8"	Upper Elkhorn	Drift	162,747	40	215	261		C. & O.
31	Pick	4' 6"	Pond Creek	Drift	18,091	10	25	76		N. & W.

DISTRICT No. 8—Continued

No.	Name of Company	Post Office	County	Name of Supt.	Name of Mine Foreman
32	McKinny Steel Co.	Wolfpit	Pike	N. H. Raiber	R. T. Price
33	Majestic Collieries Co.	Majestic	Pike	R. G. Stephens	Thos. Lamon
34	Marietta Coal Co.	Pinson Fork	Pike	G. B. Williams	Walter Wroten
35	Marrowbone Mining Co.	Lookout	Pike	C. D. Jacobs	B. Jones
36	Orinoco Mining Co.	Orinoco	Pike	J. H. Wagner	Richard Browning
37	Pond Creek Coal Co.	Stone	Pike		
38	Paragon Elkhorn Collieries Co.	Dunleary	Pike		
39	Pond Creek By-Product Colliery	Williamson, W. Va.	Pike		
40	Praise Elkhorn Coal Co.	Dunleary	Pike	Kenis Elswick	W. A. Mullins
41	Portsmouth Solvay Coal Co.	Edgarton, W. Va.	Pike	E. L. Bailey	J. E. Edwards
42	Rogers Elkhorn Coal Co.	Virgie	Pike	T. E. Rogers	Frank Jones
43	R. H. Elkhorn Coal Co.	Shelbiana	Pike	J. A. Demascus	J. J. Triplett
44	R. G. Bailey Coal Co.	Williamson, W. Va.	Pike	R. G. Bailey	
45	Sullivan Pond Creek Coal Co.	Shock	Pike	W. Plumaie	
46	Sharon Coal & Coke Co.	Sharondale	Pike	E. M. Tierney	S. L. Bowling
47	Steel Coal Co.	Mossy Bottom	Pike	Fred Stone	Butch Fife
48	Sudduth Fuel Co.	Stone	Pike	Pear Bassham	
49	Solvay Collieries Co.	Ep	Pike	E. W. Price	M. C. Copper
50	T. N. Huffman Coal Co.	Pikeville	Pike	T. N. Huffman	Sid Huffman
51	Triangle Coal Co.	Stone	Pike	Stokes Hamilton	J. E. Hufford
52	Tierney Mining Co.	Stone	Pike	G. C. Woods	George Foster
53	Thacker Coal Mining Co.	Rose Siding, W. Va.	Pike	G. M. Slaughter	A. L. Copley
54	Vulcan Collieries Co.	Vulcan, W. Va.	Pike	P. J. Win	J. M. Aliff
55	Wade Coal Co.	Williamson, W. Va.	Pike	Monroe Gosselin	
56	Winston Elkhorn Coal Co.	Regina	Pike	W. H. Price	Chas. Cassell
57	Younce Collieries Co.	Mossy Bottom	Pike	A. J. Younce	
58	Upper Elk Coal Co.	Argo	Pike	R. C. Mitchell	

No.	Equipment	Height of Seam	Name of Seam	Kind of Opening	Tons Produced	Men Outside	Men Inside	No. Days Worked	Fatal Accident	R. R.
32	Electric	3' 6"	Upper Elkhorn	Drift	185,650	145	280	145		C. & O.
33	Electric	5' 6"	Warfield	Drift	136,332	45	125	130		N. & W.
34	Pick	5' 3"	Pond Creek	Drift	30,479	7	40	108		N. & W.
35	Electric	3' 8"	Upper Elkhorn	Drift	26,085	15	60	89		C. & O.
36	Electric	4' 10"	Pond Creek	Drift	59,366	15	110	109		N. & W.
37	Electric	5' 6"	Pond Creek	Drift	843,751	206	765	164	7	N. & W.
38					43,969	15	50	178		N. & W.
39	Electric	5' 4"	Freeburn	Drift	110,063	70	95	284	1	N. & W.
40	Electric	3'	Elkhorn 1	Drift	775	2	12	15		N. & W.
41	Electric	5' 6"	Thacker	Drift	11,217	50	200	11		N. & W.
42	Electric	6' 8"	Elkhorn	Drift	9,905	10	40	30		B. & O.
43	Pick	4' 6"	Elkhorn	Drift	565	10	15	13		C. & O.
44	Pick	4' 2"	Pond Creek	Drift	5,850	5	12	140	2	N. & W.
45	Electric	4' 6"	Pond Creek	Drift	84,102	10	80	149		N. & W.
46	Electric	4'	Pond Creek	Drift	14,883	5	20	170		N. & W.
47	Electric	5'	Upper Elkhorn	Drift	46,959	15	95	115		C. & O.
48	Electric	4' 4"	Pond Creek	Drift	135,874	30	100	151		N. & W.
49	Electric	3' 10"	Pond Creek	Drift	51,828	20	95	87		N. & W.
50	Pick	5'	Upper Elkhorn	Drift	7,595	5	10	100	1	C. & O.
51	Electric	4' 4"	Pond Creek	Drift	2,220	2	10	69		N. & W.
52	Electric	5'	Pond Creek	Drift	33,476	25	85	67		N. & W.
53	Electric	4' 6"	Thacker	Drift	55,959	20	45	165	1	N. & W.
54	Electric	3' 9"	Alma	Drift	36,065	50	155	285		N. & W.
55	Pick	4' 4"	Pond Creek	Drift						N. & W.
56	Electric	4' 6"	Elkhorn	Drift	1,340	7	35	29		C. & O.
57	Pick	3' 4"	Lower Elkhorn	Drift	680	5	6	45		C. & O.
58	Electric	3' 8"	Alma	Drift	10,513	3	15	234		C. & O.
					3,280,283	1,389	4,429	110	15	

LIST OF MEN WHO TOOK EXAMINATION MAY 31, 1921.

No.	Name	Class	Grade	No.	Name	Class	Grade
1.	R. N. White.....	First	92%	33.	Oscar Oates.....	Second	98%
2.	W. K. Dozier.....	Second	82%	34.	H. M. Hembree.....	First	84%
3.	John Flynn.....	First	96%	35.	Carl Jordan.....	Second	95%
4.	J. T. Marton.....	Second	87%	36.	John Durham.....	Second	82%
5.	E. K. Koyly.....	Second	90%	37.	Greely Smith.....	Second	85%
6.	S. E. Jackson.....	Second	65%	38.	Ranzo Moore.....	Second	68%
7.	G. W. Fritts.....	Second	72%	39.	M. U. Smith.....	Second	70%
8.	H. W. Bryant.....	Second	90%	40.	Dillo Sanders.....	Second	90%
9.	G. E. Hall.....	Second		41.	H. B. Green.....	First	93%
10.	J. E. Duncan.....	First	85%	42.	William S. Ramsey.....	Second	90%
11.	George Taber.....	Second	74%	43.	Elisha Begley.....	Second	94%
12.	Elmer Hayes.....	First	86%	44.	Carl Knox.....	Second	93%
13.	Thomas Peyton.....	First	94%	45.	Marquis H. Avers.....	Second	88%
14.	W. G. Adams.....	Second	93%	46.	Willie L. Skeen.....	Second	85%
15.	Dean Amburgy.....	Second	82%	47.	Cloyd Bevins.....	Second	75%
16.	R. T. Oldham.....	Second	84%	48.	William Davis.....	Second	90%
17.	Frank Woolfe.....	Second	89%	49.	Ernest Bean.....	Second	98%
18.	Frank Kittinger.....	First	76%	50.	Sid Hicks.....	Second	80%
19.	W. H. Mosley.....	First	92%	51.	W. C. Blackburn.....	Second	80%
20.	Arson Lowe.....	First	90%	52.	Oscar Bays.....	Second	85%
21.	Elmer A. Cornett.....	Second	79%	53.	C. Harris.....	First	92%
22.	Elisha T. Roberts.....	Second	80%	54.	Herman Hobkins.....	Second	78%
23.	C. W. Winkler.....	Second	92%	55.	.....	
24.	A. C. Morris.....	First	80%	56.	R. S. Hoy.....	First	96%
25.	J. M. Webb.....	Second	87%	57.	William E. Riggs.....	Second	90%
26.	John T. Boring.....	Second	76%	58.	James Ball.....	Second	82%
27.	L. T. Thaler.....	Second	86%	59.	Walter Jones.....	Second	95%
28.	Porter Wright.....	Second	85%	60.	James Warren Ray.....	Second	98%
29.	R. W. Maglinger.....	Second	65%	61.	Walker Williams.....	Second	78%
30.	C. H. Maglinger.....	Second	65%	62.	Walter Johnson.....	Second	80%
31.	J. J. Mabeltine.....	Second	89%	63.	Harry N. Smith.....	Second	87%
32.	W. W. Kilgore.....	Second	90%	64.	James Dolan.....	Second	85%

No.	Name	Class	Grade	No.	Name	Class	Grade
65.	G. A. Friar.....	Second	65%	99.	Euel C. Brown.....	First	79%
66.	J. A. Perry.....	Second	80%	100.	Nouth Conks.....	Second	75%
67.	Ben Croley.....	Second	80%	101.	Jno. McFarlin.....	Second	98%
68.	R. H. Christian.....	Second	88%	102.	Carroll Howard.....	Second	90%
69.	Leo Woods.....	Second	86%	103.	Charles W. Boggs.....	Second	78%
70.	Edgar M. Young.....	Second	82%	104.	A. J. Alexander.....	Second	70%
71.	Vinson Thaler.....	Second	80%	105.	Floyd Mercer.....	Second	70%
72.	Ely Murray.....	Second	77%	106.	R. E. Paulkner.....	Second	85%
73.	Ed Beard.....	Second	85%	107.	Henry Parish.....	Second	78%
74.	M. C. Hammons.....	Second	70%	108.	J. T. Weddington.....	Second	70%
75.	J. D. Rhodes.....	Second	98%	109.	A. J. McCarty.....	Second	85%
76.	Joe Branham.....	Second	80%	110.	T. E. Rogers.....	Second	100%
77.	W. V. Woods.....	Second	86%	111.	R. T. Goff.....	Second	80%
78.	S. H. Tucker.....	First	92%	112.	M. M. Rabston.....	Second	95%
79.	C. M. Butterfield.....	Second	94%	113.	Edgar Moody.....	Second	80%
80.	Howard Adams.....	Second	66%	114.	Charles York.....	Second	80%
81.	H. H. Kennedy.....	Second	80%	115.	Oscar Mitchell.....	First	92%
82.	Thomas Ball.....	Second	86%	116.	Griffith Griffiths.....	First	80%
83.	J. C. Black.....	Second	82%	117.	L. D. Warren.....	Second	72%
84.	Isaac Thompson.....	Second	81%	118.	J. B. Thompson.....	First	100%
85.	C. J. Shade.....	Second	90%	119.	R. H. Cooper.....	Second	77%
86.	G. M. Ward.....	Second	82%	120.	N. E. Jones.....	First	85%
87.	Homer Meritt.....	Second	80%	121.	E. H. Havron.....	Second	70%
88.	John Branham.....	Second	89%	122.	E. H. Hart.....	Second	81%
89.	James Spears.....	Second	85%	123.	Berry C. Pence.....	Second	75%
90.	R. C. DeBusk.....	First	92%	124.	J. W. Newcom.....	Third	55%
91.	Wm. Miller.....	First	92%	125.	David Nae.....	Second	80%
92.	W. E. Dancy.....	First	92%	126.	S. C. Cornett.....	Second	90%
93.	Leo Rosamond.....	First	78%	127.	W. Flannery.....	Second	80%
94.	D. M. Stewart.....	First	78%	128.	W. L. Winchester.....	Second	84%
95.	J. A. Wilson.....	Second	80%	129.	John Rockwell.....	Second	76%
96.	W. C. Cobb.....	Second	98%	130.	Andrew M. Alexander.....	Second	82%
97.	H. J. Cox.....	Second	77%	131.	Sam Rodovich.....	First	90%
98.	N. G. Gustaf.....	First	96%	132.	C. E. Albert.....	Second	85%

LIST OF MEN WHO TOOK EXAMINATION MAY 31, 1921—Continued

No.	Name	Class	Grade	No.	Name	Class	Grade
133.	L. W. Helms.....	Second	76%	142.	Charley Crency	Second	65%
134.	Deway A. Webb.....	Second	79%	143.	Bill Ratliff.....	Second	65%
135.	A. D. Mattingly.....	Second	85%	144.	John Trembley.....	Second	75%
136.	George McGee.....	Second	78%	145.	Lewis Williams.....	Second	83%
137.	Ambrey W. Ames.....	Second	70%	146.	E. W. Mansfield.....	Second	70%
138.	Charley Ratliff	Second	75%	147.	John T. Fitzpatrick.....	Second	89%
139.	C. H. McFarland.....	Second	81%	148.	John W. Miller.....	Third	58%
140.	O. S. Allred.....	Second	65%	149.	A. L. Trimble.....	Second	92%
141.	Frank Pagett	Second	65%	150.	George W. Kilburn.....	First	94%

LIST OF MEN WHO TOOK EXAMINATION NOV. 14, 1921

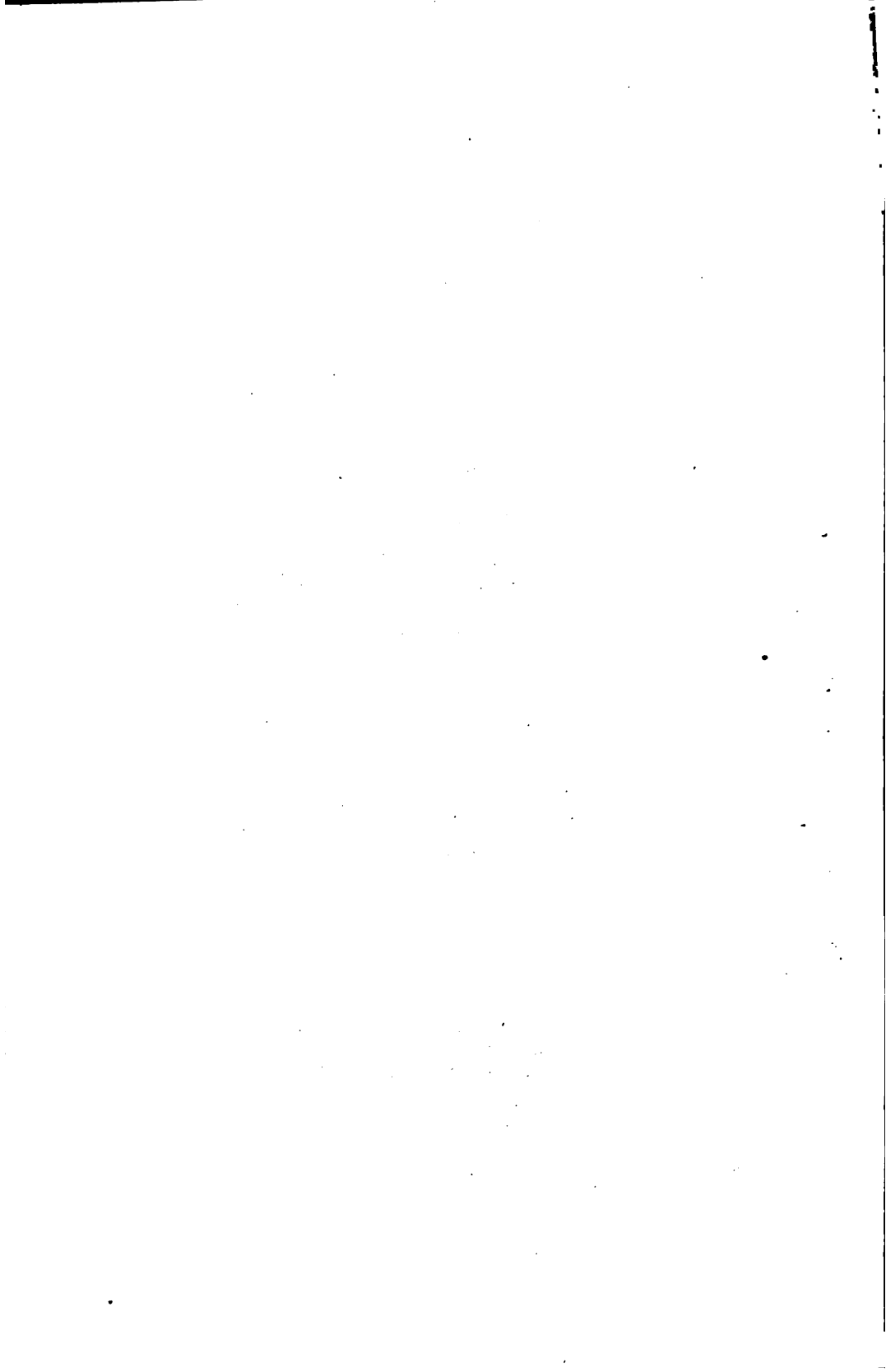
No.	Name	Class	Grade	No.	Name	Class	Grade
1.	Noah Mullins	Failed		21.	R. L. Shelley.....	Second	75%
2.	J. B. Hill.....	Second	82%	22.	Smith Snow.....	Second	83%
3.	A. L. Jenkins.....	Second	76%	23.	J. D. Garland.....	First	79%
4.	P. K. Lewis.....	Second	78%	24.	William Burgess	Second	83%
5.	W. C. Smith.....	Second	86%	25.	Ira Ramsey.....	Third	65%
6.	Houston Robbins.....	Second	82%	26.	J. H. Wade.....	Second	80%
7.	William W. Brittain.....	Second	75%	27.	Byron Hereford.....	Second	86%
8.	John V. Maginnis.....	First	95%	28.	J. R. Croley.....	Second	89%
9.	Patrick J. Sullivan.....	First	83%	29.	James Tufts	Second	78%
10.	John Dale	Second	79%	30.	Charles Stewart	Third	70%
11.	F. G. Alsop.....	Second	92%	31.	Robert Bevins	First	78%
12.	Fred Sherman.....	Second	78%	32.	D. M. Hunt.....	Second	83%
13.	W. A. Jones.....	First	96%	33.	Henry L. Riley.....	Second	76%
14.	Givins Christian.....	First	81%	34.	Frank Foreman	Second	83%
15.	H. L. Irick.....	First	75%	35.	J. E. Hill.....	First	84%
16.	Fred Sparks.....	Second	78%	36.	Carl Coote	Second	85%
17.	C. J. Bartels.....	First	79%	37.	C. A. Peake.....	Second	90%
18.	A. L. Toshie.....	First	76%	38.	C. H. Maddox.....	Second	92%
19.	W. M. Thompson.....	Second	82%	39.	R. L. Gregory.....	First	82%
20.	W. A. Robinson.....	Second	77%	40.	M. W. Evitts.....	Second	78%

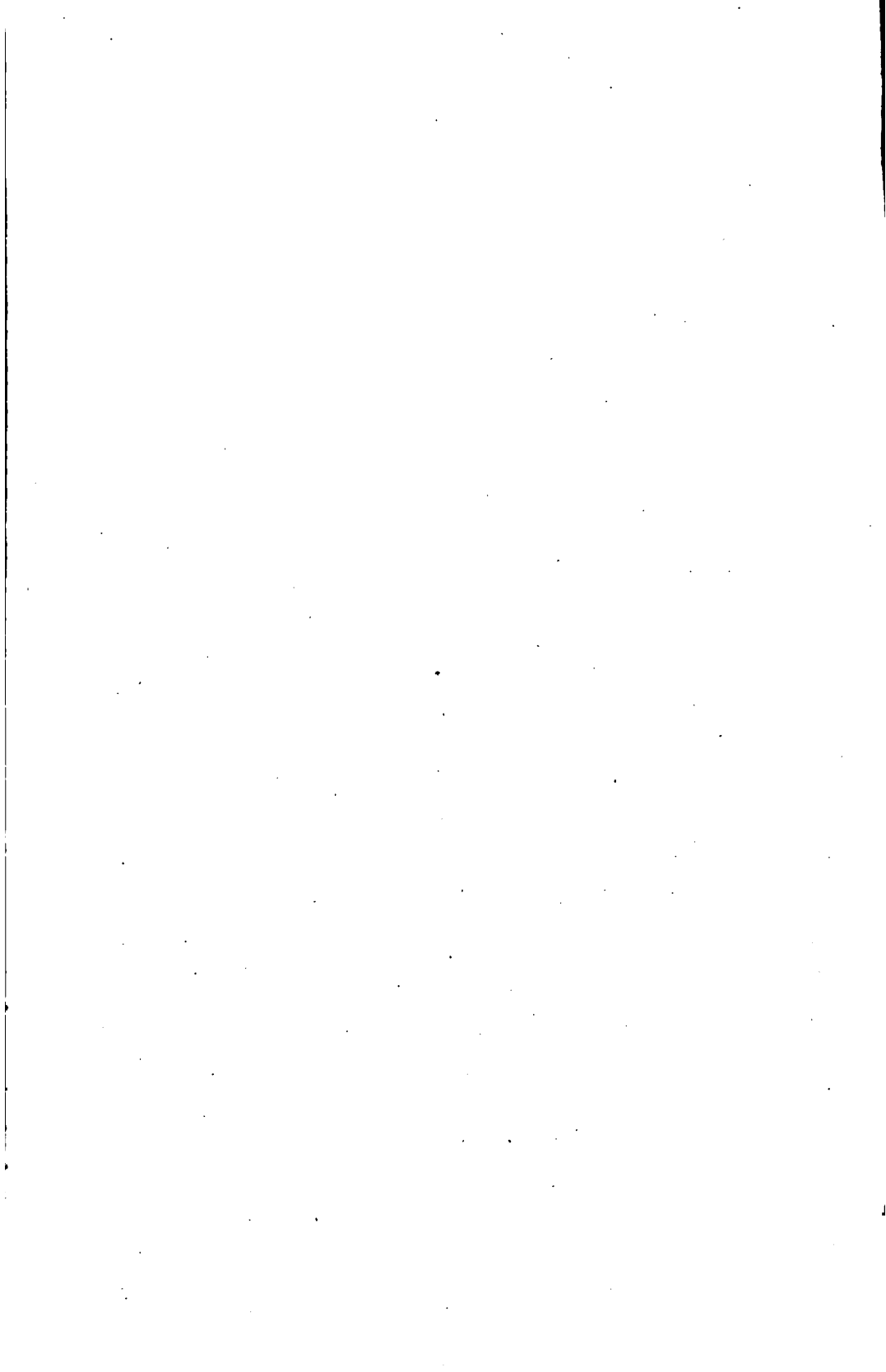
LIST OF MEN WHO TOOK EXAMINATION NOVEMBER 14, 1921—Continued

STATE DEPARTMENT OF MINES OF KENTUCKY

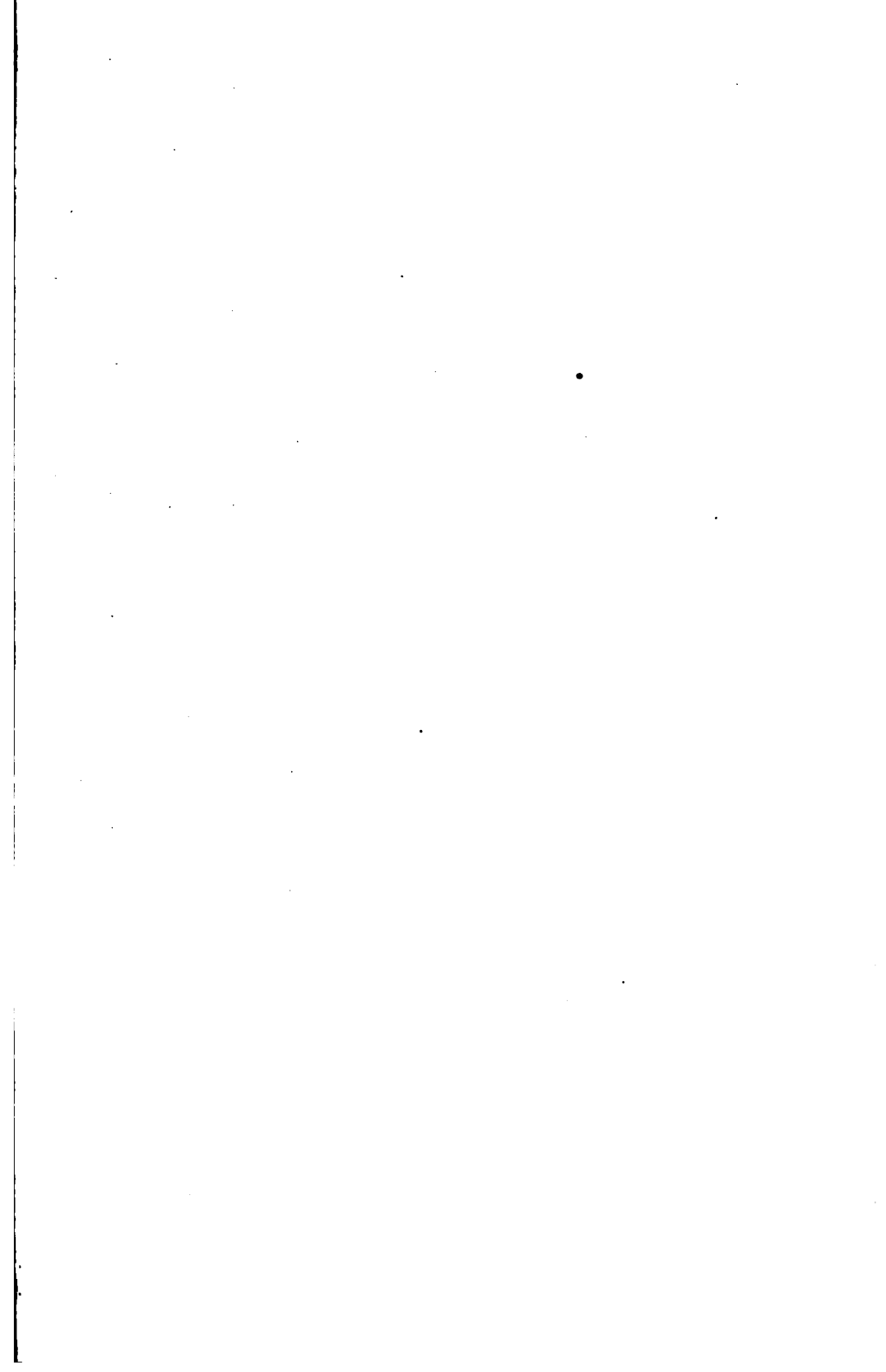
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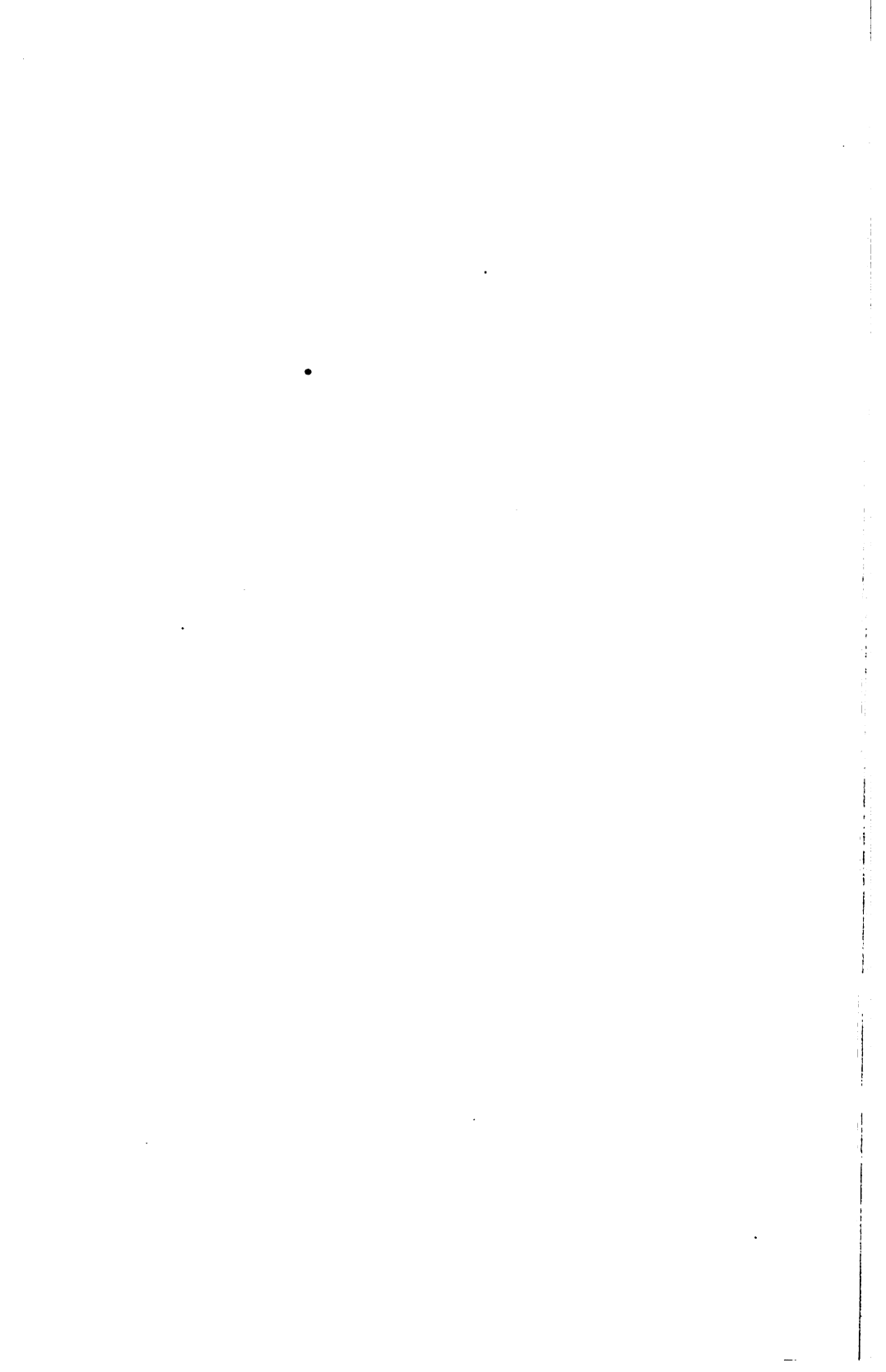
No.	Name	Class	Grade	No.	Name	Class	Grade
41.	Arthur Campbell.....	Failed		67.	R. H. Trothen.....	First	75%
42.	Melvin E. Wolfe.....	Second	81%	68.	I. N. Fletcher.....	First	75%
43.	Fred Onan.....	Second	83%	69.	W. S. Fletcher.....	Second	77%
44.	C. L. Lewis.....	First	84%	70.	James Lee.....	Second	84%
45.	A. H. Taubee.....	Second	84%	71.	W. M. Lawson.....	Second	79%
46.	T. J. Hancock.....	Second	76%	72.	Obe Moreland.....	Second	87%
47.	Ulis Elkins.....	Second	77%	73.	Tom Rogers.....	First	77%
48.	Luther Mercer.....	Failed		74.	L. G. Coffey.....	Second	80%
49.	J. H. Barney.....	Second	88%	75.	Herman Render.....	Second	79%
50.	W. M. Davis.....	First	84%	76.	E. Hardin.....	Second	87%
51.	Joe Smith.....	First	84%	77.	Fred Tatum.....	Second	85%
52.	W. H. Reeves.....	Second	83%	78.	Joe James.....	Second	77%
53.	Grant Roberts.....	Second	80%	79.	W. M. Smith.....	Failed	
54.	W. M. Ewing.....	Failed		80.	Elbert Scott.....	First	78%
55.	W. D. Erwin.....	Second	75%	81.	Robert Calloway.....	Second	78%
56.	R. A. Mohan.....	Second	84%	82.	O. V. Brown.....	Second	76%
57.	Frank Wyatt.....	Second	81%	83.	Harry Mills.....	First	83%
58.	W. B. Bowling.....	Failed		84.	John W. Siddell.....	First	83%
59.	Virgil Manning.....	Failed		85.	H. Y. Dyke.....	Failed	
60.	J. K. Braden.....	Second	88%	86.	Robert Stephens.....	Failed	92%
61.	Robert Morgan.....	Third	65%	87.	M. C. Tabor.....	Second	
62.	Oscar C. Stidham.....	Second	77%	88.	Elbert Moses.....	Failed	
63.	Raymond Venable.....	Second	75%	89.	John Grigsby.....	Second	83%
64.	Charles H. Beidenmiller.....	First	92%	90.	Tal G. Morgan.....	First	87%
65.	Thomas Jarvis.....	Second	75%	91.	Charles L. Dorth.....	Failed	
66.	G. D. Brown.....	Second	81%	92.	Charles C. Williams.....	Second	90%

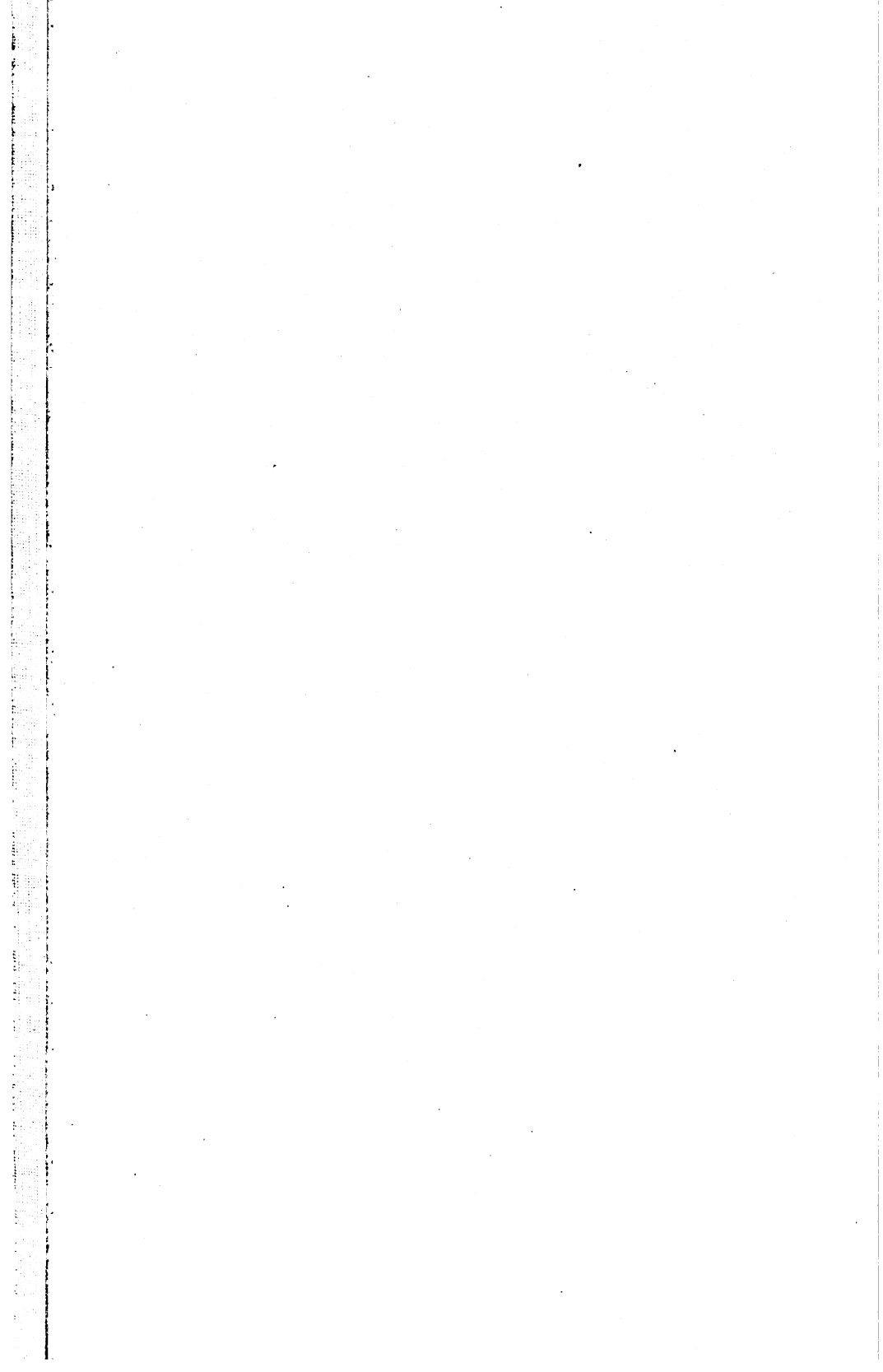




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